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Ingevity Corp
Form 10-Q
November 01, 2018

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-Q

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

For the quarterly period ended September 30, 2018

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

Commission File Number 001-37586

INGEVITY CORPORATION
(Exact name of registrant as specified in its charter)

Delaware 47-4027764
(State of other jurisdiction of incorporation or organization) (I.R.S. Employer Identification No.)
5255 Virginia Avenue
North Charleston, South Carolina 29406
(Address of principal executive offices) (Zip code)

843-740-2300
(Registrant's telephone number)

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 every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that registrant was required to submit 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 definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act. (Check one):
Large Accelerated Filer Accelerated Filer

Non-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.

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Indicate by check mark whether the Registrant is a shell company (as defined by Rule 12b-2 of the Exchange Act).

Yes No

The Registrant had 41,968,680 shares of common stock, \$0.01 par value, outstanding at October 31, 2018.

Ingevity Corporation
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PART I - FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

INGEVITY CORPORATION

Condensed Consolidated Statements of Operations (Unaudited)

	Three Months		Nine Months	
	Ended		Ended	
In millions, except per share data	September 30,	September 30,	September 30,	September 30,
	2018	2017	2018	2017
Net sales	\$311.2	\$264.1	\$855.0	\$742.9
Cost of sales	192.6	170.9	535.8	489.2
Gross profit	118.6	93.2	319.2	253.7
Selling, general and administrative expenses	34.5	26.2	96.5	78.5
Research and technical expenses	5.6	4.8	16.3	14.6
Separation costs	—	0.2	—	0.7
Restructuring and other (income) charges, net	—	0.1	(0.6) 3.5
Acquisition-related costs	—	4.1	4.3	4.1
Other (income) expense, net	2.5	(0.5) 2.7	0.9
Interest expense, net	7.9	3.2	21.8	9.3
Income (loss) before income taxes	68.1	55.1	178.2	142.1
Provision (benefit) for income taxes	16.4	16.7	38.5	44.9
Net income (loss)	51.7	38.4	139.7	97.2
Less: Net income (loss) attributable to noncontrolling interest	2.2	4.6	12.7	12.3
Net income (loss) attributable to Ingevity stockholders	\$49.5	\$33.8	\$127.0	\$84.9
Per share data				
Basic earnings (loss) per share attributable to Ingevity stockholders	\$1.18	\$0.80	\$3.02	\$2.01
Diluted earnings (loss) per share attributable to Ingevity stockholders	1.16	0.79	2.98	2.00

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

INGEVITY CORPORATION

Condensed Consolidated Statements of Comprehensive Income (Loss) (Unaudited)

In millions	Three Months		Nine Months	
	Ended September 30, 2018	2017	Ended September 30, 2018	2017
Net income (loss)	\$51.7	\$38.4	\$139.7	\$97.2
Other comprehensive income (loss), net of tax:				
Foreign currency translation adjustment	(3.6)	2.4	(6.5)	6.2
Derivative instruments:				
Unrealized gain (loss), net of tax provision (benefit) of \$0.1, zero, \$0.3, zero	0.1	(0.2)	0.8	(0.2)
Reclassifications of deferred derivative instruments (gain) loss, included in net income (loss), net of tax (provision) benefit of (\$0.2), zero, (\$0.2), zero	(0.3)	0.1	(0.5)	0.1
Total derivative instruments, net of tax provision (benefit) of (\$0.1), zero, \$0.1, zero	(0.2)	(0.1)	0.3	(0.1)
Pension & Other postretirement benefits:				
Reclassifications of net actuarial and other (gain) loss and amortization of prior service cost, included in net income, net of tax of zero for all periods	—	—	0.1	—
Total pension and other postretirement benefits, net of tax of zero for all periods	—	—	0.1	—
Other comprehensive income (loss), net of tax provision (benefit) of (\$0.1), zero, \$0.1, zero	(3.8)	2.3	(6.1)	6.1
Comprehensive income (loss)	47.9	40.7	133.6	103.3
Less: Comprehensive income (loss) attributable to noncontrolling interest	2.2	4.6	12.7	12.3
Comprehensive income (loss) attributable to Ingevity stockholders	\$45.7	\$36.1	\$120.9	\$91.0

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

INGEVITY CORPORATION

Condensed Consolidated Balance Sheets

In millions, except share and par value data	September 30, 2018	December 31, 2017
Assets	(Unaudited)	
Cash and cash equivalents	\$ 57.5	\$ 87.9
Accounts receivable, net of allowance of \$0.3 million at September 30, 2018 and \$0.4 million at December 31, 2017	140.4	100.0
Inventories, net	194.3	160.0
Prepaid and other current assets	28.6	20.8
Current assets	420.8	368.7
Property, plant and equipment, net	498.9	438.5
Goodwill	130.6	12.4
Other intangibles, net	129.2	4.9
Deferred income taxes	2.9	3.4
Restricted investment	70.7	71.3
Other assets	38.8	30.4
Total Assets	\$ 1,291.9	\$ 929.6
Liabilities		
Accounts payable	\$ 108.7	\$ 83.1
Accrued expenses	26.2	20.0
Accrued payroll and employee benefits	32.5	39.2
Notes payable and current maturities of long-term debt	4.9	9.4
Income taxes payable	7.5	1.5
Current liabilities	179.8	153.2
Long-term debt including capital lease obligations	744.0	444.0
Deferred income taxes	31.2	41.3
Other liabilities	14.2	13.2
Total Liabilities	969.2	651.7
Commitments and contingencies (Note 15)		
Equity		
Preferred stock (par value \$0.01 per share; 50,000,000 shares authorized; zero issued and outstanding at September 30, 2018 and December 31, 2017)	—	—
Common stock (par value \$0.01 per share; 300,000,000 shares authorized; 42,322,153 and 42,208,973 issued; 41,992,323 and 42,089,103 outstanding at September 30, 2018 and December 31, 2017)	0.4	0.4
Additional paid-in capital	95.1	140.1
Retained earnings	271.4	142.8
Accumulated other comprehensive income (loss)	(17.8)	(11.7)
Treasury stock, common stock, at cost (329,830 shares at September 30, 2018; 119,870 shares at December 31, 2017)	(26.4)	(7.7)
Total Ingevity stockholders' equity	322.7	263.9
Noncontrolling interest	—	14.0
Total Equity	322.7	277.9
Total Liabilities and Equity	\$ 1,291.9	\$ 929.6

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

INGEVITY CORPORATION

Condensed Consolidated Statements of Cash Flows (Unaudited)

	Nine Months Ended September 30,	
	2018	2017
In millions		
Cash provided by (used in) operating activities:		
Net income (loss)	139.7	\$97.2
Adjustments to reconcile net income (loss) to cash provided by operating activities:		
Depreciation and amortization	42.1	30.4
Deferred income taxes	3.2	(6.0)
Disposal/impairment of assets	—	1.1
Restructuring and other (income) charges, net	(0.6)	3.5
Share-based compensation	10.1	7.4
Pension and other postretirement expense	1.4	0.8
Other non-cash items	8.5	9.1
Changes in operating assets and liabilities:		
Accounts receivable, net	(24.6)	(19.1)
Inventories, net	(30.3)	(1.4)
Prepaid and other current assets	(4.7)	4.1
Planned major maintenance outage	(5.1)	(4.5)
Accounts payable	21.6	2.7
Accrued expenses	6.6	1.8
Accrued payroll and employee benefit costs	(6.5)	7.0
Income taxes	7.5	3.9
Pension contribution	(1.5)	—
Restructuring and other spending	(0.1)	(5.2)
Changes in other operating assets and liabilities, net	(0.9)	0.8
Net cash provided by (used in) operating activities	166.4	133.6
Cash provided by (used in) investing activities:		
Capital expenditures	(56.6)	(36.2)
Payments for acquired businesses, net of cash acquired	(315.5)	—
Purchase of equity securities	—	(2.4)
Sale of equity securities	1.1	0.7
Other investing activities, net	(5.3)	(4.1)
Net cash provided by (used in) investing activities	(376.3)	(42.0)
Cash provided by (used in) financing activities:		
Net borrowings under our revolving credit facility	—	(111.9)
Proceeds from long-term borrowings	300.0	75.0
Debt issuance costs	(7.1)	(1.3)
Tax payments related to withholdings on vested restricted stock units	(2.1)	(0.9)
Proceeds and withholdings from share-based compensation plans, net	1.8	—
Repurchases of common stock under publicly announced plan	(18.1)	(2.6)
Acquisition of noncontrolling interest	(80.0)	—
Noncontrolling interest distributions	(15.3)	(8.2)
Other financing activities, net	0.7	—
Net cash provided by (used in) financing activities	179.9	(49.9)
Increase (decrease) in cash, cash equivalents and restricted cash	(30.0)	41.7
Effect of exchange rate changes on cash	(0.1)	(1.7)
Change in cash, cash equivalents and restricted cash	(30.1)	40.0

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Cash, cash equivalents and restricted cash at beginning of period	87.9	30.5
Cash, cash equivalents and restricted cash at end of period ⁽¹⁾	\$57.8	\$70.5

⁽¹⁾ Includes restricted cash of \$0.3 million and \$0.3 million and cash and cash equivalents of \$57.5 million and \$70.2 million as of September 30, 2018 and 2017, respectively. Restricted cash is included within "Prepaid and Other Current Assets" within the condensed consolidated balance sheets.

Supplemental cash flow information:

Cash paid for interest, net of capitalized interest	\$22.6	\$13.9
Cash paid for taxes, net of refunds	\$27.6	\$47.5
Purchases of property, plant and equipment in accounts payable	\$8.7	\$4.9

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

Ingevity Corporation
Notes to the Condensed Consolidated Financial Statements
September 30, 2018
(Unaudited)

Note 1: Background

Ingevity Corporation ("Ingevity," "the Company," "we," "us" or "our") is a leading global manufacturer of specialty chemicals and high performance activated carbon materials. We provide innovative solutions to meet our customers' unique and demanding requirements through proprietary formulated products. We report in two business segments, Performance Materials and Performance Chemicals.

Our Performance Materials segment consists of our automotive technologies and process purifications product lines. Performance Materials manufactures products in the form of powder, granular, extruded pellets or structured honeycombs and activated carbon sheets. Automotive technologies products are sold into the gasoline vapor emission control markets within the automotive industry while process purifications products are sold into the food, water, beverage, air emissions control, corrosion protection, odor reduction and chemical purification industries.

Our Performance Chemicals segment consists of our pavement technologies, oilfield technologies and industrial specialties product lines. Performance Chemicals manufactures products derived from crude tall oil and lignin extracted from the kraft paper making process. Performance Chemicals products serve as critical inputs used in a variety of high performance applications, including asphalt paving (pavement technologies product line), oil exploration and production (oilfield technologies product line), printing inks, adhesives, agrochemicals, and lubricants (industrial specialties product line).

Note 2: Basis of Consolidation and Presentation

In all periods presented within these Condensed Consolidated Financial Statements, all intercompany accounts and transactions have been eliminated. The Condensed Consolidated Financial Statements include the accounts of Ingevity and subsidiaries in which a controlling interest is maintained. If Ingevity's ownership is less than 100 percent, the outside stockholders' interests are shown as noncontrolling interest. In all periods presented, the noncontrolling interest reported within the Condensed Consolidated Financial Statements represents the 30 percent ownership interest held by a third party U.S.-based company in our consolidated Purification Cellutions LLC legal entity. Purification Cellutions LLC is the legal entity that owns the technology associated with, and manufactures, our structured honeycomb products within our Performance Materials segment. See Note 11 for information regarding our recent acquisition of the remaining 30 percent interest in Purification Cellutions, LLC on August 1, 2018.

These Condensed Consolidated Financial Statements have not been audited. However, in the opinion of management, all normal recurring adjustments necessary to state fairly the financial position and the results of operations for the interim periods presented have been made. These Condensed Consolidated Financial Statements have been prepared on the basis of accounting principles and practices generally accepted in the United States ("GAAP") applied consistently with those used in the preparation of the Annual Consolidated Financial Statements for the years ended December 31, 2017, 2016 and 2015, collectively referred to as the "Annual Consolidated Financial Statements" included in our Annual Report on Form 10-K for the year ended December 31, 2017 (the "2017 Annual Report").

Certain information and footnote disclosures normally included in our Annual Consolidated Financial Statements presented in accordance with GAAP have been condensed or omitted. The consolidated results of operations for interim periods are not necessarily indicative of the results to be expected for the full year. The accompanying Condensed Consolidated Financial Statements should be read in conjunction with the Annual Consolidated Financial Statements and notes thereto included in the 2017 Annual Report.

Certain prior year amounts have been reclassified to conform with the current year's presentation.

Note 3: New accounting guidance

In August 2018, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2018-15 "Intangibles-Goodwill and Other-Internal-Use Software (Subtopic 350-40) Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement that is a Service Contract." This ASU requires companies to defer specific implementation costs incurred in a Cloud Computing Arrangement ("CCA") that are often

expensed as incurred under current GAAP, and recognize the expense over the noncancellable term of the CCA. The new standard is effective for fiscal years beginning

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Ingevity Corporation
Notes to the Condensed Consolidated Financial Statements
September 30, 2018
(Unaudited)

after December 15, 2019, including interim periods within those fiscal years. Although we are still evaluating the impact of this new standard, we do not believe that the adoption will materially impact our Condensed Consolidated Financial Statements and related disclosures.

In August 2018, the FASB issued ASU 2018-13 "Fair Value Measurement (Topic 820) Disclosure Framework - Changes to the Disclosure Requirements for Fair Value Measurement." This ASU eliminates, amends, and adds disclosure requirements for fair value measurements. The new standard is effective for fiscal years beginning after December 15, 2019, including interim periods within those fiscal years. Although we are still evaluating the impact of this new standard, we do not believe that the adoption will materially impact our Condensed Consolidated Financial Statements and related disclosures.

In June 2018, the FASB issued ASU 2018-07 "Compensation-Stock Compensation (Topic 718) - Improvements to Nonemployee Share-Based Payment Accounting." This ASU provides for a single accounting model for all share-based payments, with the employee based guidance now applying to nonemployee share-based transactions. The new standard is effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. Although we are still evaluating the impact of this new standard, we do not believe that the adoption will materially impact our Condensed Consolidated Financial Statements and related disclosures.

In February 2018, the FASB issued ASU 2018-02 "Income Statement-Reporting Comprehensive Income (Topic 220): Reclassification of Certain Tax Effects from AOCI." This ASU provides for the reclassification of the effect of remeasuring deferred tax balances related to items within accumulated other comprehensive income to retained earnings resulting from the provisions of the December 22, 2017 U.S. Tax Cuts and Jobs Act (the "U.S. Tax Reform"). We early adopted this new ASU in the fourth quarter of 2017, and as a result, we reclassified \$0.3 million from AOCI to retained earnings.

In August 2017, the FASB issued ASU 2017-12 "Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities" that amends the hedge accounting recognition and presentation requirements under hedge accounting. The new standard will make more financial and non-financial hedging strategies eligible for hedge accounting, amends the presentation and disclosure requirements, and simplifies how companies assess effectiveness. The new standard is effective for fiscal years beginning after December 15, 2018, including interim periods within those years. We early adopted this new ASU during the fourth quarter of 2017. The impact of adoption did not have a material effect on our Condensed Consolidated Financial Statements and related disclosures.

In January 2017, the FASB issued ASU 2017-04 "Intangibles-Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment," which amends and simplifies the accounting standard for goodwill impairment. The new standard removes Step 2 of the goodwill impairment test, which requires a hypothetical purchase price allocation. A goodwill impairment will now be the amount a reporting unit's carrying value exceeds its fair value, limited to the total amount of goodwill allocated to that reporting unit. The new standard is effective for annual and any interim impairment tests for periods beginning after December 15, 2019. The Company early adopted this standard on January 1, 2018. The impact of adoption did not have a material impact on our Condensed Consolidated Financial Statements and related disclosures.

In January 2017, the FASB issued ASU No. 2017-01 "Business Combinations (Topic 805): Clarifying the Definition of a Business." The new guidance narrows the existing definition of a business and provides a framework for evaluating whether a transaction should be accounted for as an acquisition (or disposal) of assets or a business. The guidance requires an entity to evaluate if substantially all of the fair value of the gross assets acquired is concentrated in a single identifiable asset or a group of similar identifiable assets; if so, the set of transferred assets and activities (collectively, the "set") is not a business. To be considered a business, the set would need to include an input and a substantive process that together significantly contribute to the ability to create outputs, as defined by the ASU. The guidance is effective for annual reporting periods beginning after December 15, 2017, including interim periods within those annual reporting periods, and should be applied prospectively. We adopted this standard on January 1,

2018. We have utilized this new guidance in our accounting for the Georgia Pacific's Pine Chemical Business acquisition; refer to Note 4 for more information.

In August 2016, the FASB issued final amendments to clarify how entities should classify certain cash receipts and cash payments in ASU 2016-15 "Statement of Cash Flows (Topic 230): Classification of Certain Cash Receipts and Cash Payments." The new guidance clarifies the classification on the statement of cash flows of certain cash receipts and disbursements such as distributions received from equity method investees, proceeds from settlement of insurance claims, and proceeds from the settlement of corporate-owned life insurance policies. The new standard is effective for fiscal years beginning after December 15, 2017,

Ingevity Corporation
Notes to the Condensed Consolidated Financial Statements
September 30, 2018
(Unaudited)

including interim periods within those years. The Company adopted this standard on January 1, 2018. The impact of adoption did not have a material impact on our Condensed Consolidated Financial Statements and related disclosures. In February 2016, the FASB issued ASU 2016-02 "Leases (Topic 842)." Under the new guidance, lessees will be required to recognize for all leases (with the exception of short-term leases) a lease liability, which is a lessee's obligation to make lease payments arising from a lease, measured on a discounted basis and a right-of-use asset, which is an asset that represents the lessee's right to use, or control the use of, a specified asset for the lease term. We expect to adopt these provisions on January 1, 2019, including interim periods subsequent to the adoption date, which can be applied using a full retrospective or modified retrospective approach. Since the issuance of ASU 2016-02, the FASB has issued several amendments which clarify certain points in Topic 842, including ASU 2018-01 ("Land Easement Practical Expedient"), ASU 2018-10 ("Codification Improvements"), and ASU 2018-11 ("Targeted Improvements"). We anticipate adopting all of these standards at the same time effective January 1, 2019. Based upon the results of our initial assessment thus far, we plan to adopt this new standard under the modified retrospective approach, utilizing the practical expedients upon transition that will retain lease classification and initial direct costs for any leases that exist prior to adoption of the standard. We are in the process of cataloging our existing lease contracts and implementing changes to our systems. As a lessee, the majority of our leases under existing guidance are classified as operating leases, and therefore, not recorded on the balance sheet but are recorded in the statement of earnings as expense as incurred. Upon adoption of the new guidance, we will be required to record the vast majority of these operating leases on the balance sheet as a right-of-use asset and a lease liability. The timing of expense recognition and classification in the statement of earnings could change based on the classification of leases as either operating or financing; however, we have not completed our evaluation to determine to what extent. In May 2014, the FASB issued ASU 2014-09 "Revenue from Contracts with Customers (Topic 606)," which supersedes both the revenue recognition requirement to Accounting Standards Codification ("ASC") 605 "Revenue Recognition" and most industry-specific guidance. The core principle of the new standard (ASC 606) is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. An entity must also disclose sufficient information to enable users of financial statements to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers, including qualitative and quantitative information about contracts with customers, significant judgments and changes in judgments, and assets recognized from the costs to obtain or fulfill a contract. In 2016 and 2017, the FASB issued several ASUs that provided additional clarity on numerous topics as well as providing technical corrections to the original ASU 2014-09. We adopted this new standard on January 1, 2018, utilizing the modified retrospective method applied to those contracts that were not completed as of January 1, 2018. See below for the effect of this adoption on our Condensed Consolidated Financial Statements.

The majority of our sales revenue remains unchanged by ASC 606 and continues to be recognized when products are shipped from our manufacturing and warehousing facilities, which represents the point at which control is transferred to the customer. For certain limited contracts, where we are producing goods with no alternative use and for which we have an enforceable right to payment for performance completed to date, we are recognizing revenue as goods are manufactured, rather than when they are shipped as previously done under ASC 605. The cumulative effect of the changes made to our condensed consolidated balance sheet on January 1, 2018, due to the adoption of ASC 606, were as follows:

In millions	Balance at December 31, 2017	Adjustments	Balance at January 1, 2018
Assets			

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Accounts receivable, net of allowance	\$ 100.0	\$ 0.3	\$ 100.3
Inventories, net	160.0	(2.4)	157.6
Prepaid and other current assets	20.8	5.1	25.9
Liabilities			
Accrued expenses	20.0	0.9	20.9
Deferred income taxes	41.3	0.5	41.8
Equity			
Retained earnings	\$ 142.8	\$ 1.6	\$ 144.4

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Ingevity Corporation
Notes to the Condensed Consolidated Financial Statements
September 30, 2018
(Unaudited)

In accordance with ASC 606, the impact of adoption on our condensed consolidated statement of operations and balance sheet were as follows:

	Three Months Ended September 30, 2018		
	Balances		
In millions	As reported	without Adoption of ASC 606	Effect of Change Higher/(Lower)
Net sales	\$311.2	\$ 311.4	\$ (0.2)
Cost of sales	192.6	192.8	(0.2)
Provision (benefit) for income taxes	16.4	16.4	—
Net income (loss)	\$51.7	\$ 51.7	\$ —
	Nine Months Ended September 30, 2018		
	Balances		
In millions	As reported	without Adoption of ASC 606	Effect of Change Higher/(Lower)
Net sales	\$855.0	\$ 854.7	\$ 0.3
Cost of sales	535.8	536.1	(0.3)
Provision (benefit) for income taxes	38.5	38.4	0.1
Net income (loss)	\$139.7	\$ 139.2	\$ 0.5
	September 30, 2018		
	Balances		
In millions	As reported	without Adoption of ASC 606	Effect of Change Higher/(Lower)
Assets			
Accounts receivable, net of allowance	\$140.4	\$ 140.0	\$ 0.4
Inventories, net	194.3	196.5	(2.2)
Prepaid and other current assets	28.6	23.1	5.5
Liabilities			
Accrued expenses	26.2	25.1	1.1
Deferred income taxes	31.2	31.1	0.1
Equity			
Retained earnings	\$271.4	\$ 268.9	\$ 2.5

All other issued but not yet effective accounting pronouncements are not expected to have a material impact on our Condensed Consolidated Financial Statements.

Note 4: Acquisition

Georgia Pacific's Pine Chemical Business

On August 22, 2017, we entered into an Asset Purchase Agreement (the "Purchase Agreement") with Georgia-Pacific Chemicals LLC, Georgia-Pacific LLC (together with Georgia-Pacific Chemicals LLC, "GP") and Ingevity Arkansas,

LLC, a wholly-owned subsidiary of Ingevity, to purchase substantially all the assets primarily used in GP's pine chemical business (the "Pine Chemical Business"), including assets and facilities related to tall oil fractionation operations and the production or modification of tall oil fatty acids, tall oil rosins, rosin derivatives and formulated products (the "Acquisition").

On March 8, 2018 (the "Acquisition Date"), pursuant to the terms and conditions set forth in the Purchase Agreement, we completed the Acquisition. During the three months ended September 30, 2018, we finalized the purchase price which included

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a final adjustment for working capital resulting in an aggregate purchase price of \$315.5 million. The Acquisition was primarily funded with the net proceeds from the \$300.0 million senior notes issued on January 24, 2018. See Note 10 for more information on the senior notes. In addition, on the Acquisition Date, the Company and GP entered into a 20-year, market-based crude tall oil ("CTO") supply contract with certain of Georgia-Pacific's paper mill operations. The Acquisition is being integrated into our Performance Chemicals segment and has been included within our results of operations since the Acquisition Date. Although not yet complete, a substantial portion of the Pine Chemical Business has been integrated into our existing Performance Chemicals operations. As a result, our ability to separate net sales and operating performance of the Acquisition from our existing Performance Chemicals' operating results is no longer practicable.

Purchase Price Allocation

The Acquisition has been accounted for under the business combinations accounting guidance, and as such we have applied acquisition accounting. Acquisition accounting requires, among other things, that assets acquired and liabilities assumed be recognized at their fair values as of the acquisition date. The aggregate purchase price noted above was allocated to the major categories of assets acquired and liabilities assumed based upon their estimated fair values at the Acquisition Date using primarily Level 2 and Level 3 inputs. These Level 2 and Level 3 valuation inputs include an estimate of future cash flows and discount rates. Additionally, estimated fair values are based, in part, upon outside appraisals for certain assets, including specifically-identified intangible assets.

The following table summarizes the consideration paid for the Acquisition and the amounts of the assets acquired and liabilities assumed as of the Acquisition Date.

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Purchase Price Allocation

In millions	Weighted Average Amortization Period	Fair Value
Accounts receivable		\$16.2
Inventories ⁽¹⁾		9.4
Property, plant and equipment		39.3
Intangible assets ⁽²⁾		
Patents	12 years	1.9
Non-compete agreement	3 years	2.2
Customer relationships	11 years	129.0
Goodwill ⁽³⁾		118.7
Other assets		0.1
Total fair value of assets acquired		316.8
Accounts payable		0.8
Accrued expenses		0.5
Total fair value of liabilities assumed		\$1.3
Total cash paid		\$315.5

(1) Fair value of finished good inventories acquired included a step-up in the value of approximately \$1.4 million, of which zero and \$1.4 million was expensed in the three and nine months ended September 30, 2018, respectively. The expense is included in "Cost of sales" on the condensed consolidated statement of operations.

(2) The aggregate amortization expense was \$3.2 million and \$7.4 million for the three and nine months ended September 30, 2018, respectively. Estimated amortization expense is as follows: 2018 - \$10.6 million, 2019 - \$12.7 million, 2020 - \$12.7 million, 2021 - \$12.0 million, and 2022 - \$11.8 million.

(3) Goodwill largely consists of expected cost synergies and economies of scale resulting from the business combination. We expect the full amount to be deductible for income tax purposes.

Unaudited Pro Forma Financial Information

The following unaudited pro forma results of operations assume that the Acquisition occurred at the beginning of the periods presented. These unaudited pro forma results are presented for informational purposes only and are not necessarily indicative of what the actual results of operations would have been if the Acquisition had occurred at the beginning of the periods presented, nor are they indicative of future results of operations. The pro forma results presented below are adjusted for the removal of Acquisition and other related costs of zero and \$5.7 million for the three and nine months ended September 30, 2018, respectively, and of \$4.1 million for both the three and nine months ended September 30, 2017.

In millions	Three Months Ended		Nine Months Ended	
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
Net sales	\$311.2	\$288.1	\$875.2	\$814.5
Income (loss) before income taxes	68.1	58.8	184.7	141.3
Diluted earnings (loss) per share attributable to Ingevity stockholders	\$1.16	\$0.85	\$3.10	\$1.99

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Acquisition-related costs

Costs incurred to complete and integrate the Acquisition into our Performance Chemicals segment are expensed as incurred and recorded to Acquisition-related costs on our condensed consolidated statement of operations. During the three and nine months ended September 30, 2018, zero and \$4.3 million, respectively of Acquisition-related costs were recognized. Acquisition-related costs incurred in both the three and nine months ended September 30, 2017 were \$4.1 million. These costs represent transaction costs, legal fees and professional third-party service fees.

Note 5: Revenues

On January 1, 2018, we adopted ASC 606 using the modified retrospective method applied to contracts not completed as of January 1, 2018. Results for reporting periods beginning after January 1, 2018 are presented under ASC 606, while prior period amounts are not adjusted and continue to be reported in accordance with our historic accounting under ASC 605. See Note 3 for more information on the adoption of ASC 606 and its impact on our Condensed Consolidated Financial Statements.

Ingevity's operating segments are (i) Performance Materials and (ii) Performance Chemicals.

Our Performance Materials segment consists of our automotive technologies and process purifications product lines. Performance Materials manufactures products in the form of powder, granular, extruded pellets or structured honeycombs and activated carbon sheets. Automotive technologies products are sold into the gasoline vapor emission control markets within the automotive industry while process purifications products are sold into the food, water, beverage, air emissions control, corrosion protection, odor reduction and chemical purification industries.

Our Performance Chemicals segment consists of our pavement technologies, oilfield technologies and industrial specialties product lines. Performance Chemicals manufactures products derived from crude tall oil and lignin extracted from the kraft paper making process. Performance Chemicals products serve as critical inputs used in a variety of high performance applications, including asphalt paving (pavement technologies product line), oil exploration and production (oilfield technologies product line), printing inks, adhesives, agrochemicals, and lubricants (industrial specialties product line).

Net sales in both of our reportable segments are based on the sale of manufactured products. Net sales are recognized when obligations under the terms of a contract with our customer are satisfied; generally, this occurs with the transfer of control of our products. Since net sales are derived from product sales only, we have disaggregated our net sales by our product lines within each reportable segment. Net sales are measured as the amount of consideration we expect to receive in exchange for transferring goods. Sales, value add, and other taxes we collect concurrent with revenue-producing activities are excluded from revenue. Sales returns and allowances are not a normal practice in the industry and are not significant. Shipping and handling fees billed to customers continue to be included with Net sales. Certain customers may receive cash-based incentives, including discounts and volume rebates, which are accounted for as variable consideration and included in Net sales. Incidental items immaterial in the context of the contract are recognized as expense. If we pay for the freight and shipping, we recognize the cost when control of the product has transferred to the customer as an expense in Cost of sales on the condensed consolidated statement of operations. Although very rare, from time to time we incur expenses to obtain a sales contract. In these cases, if these costs are for orders that are fulfilled in one year or less, we expense these costs as they are incurred. Because the period between when we transfer a contracted good to a customer and when the customer pays for that good will be one year or less, we elect not to adjust the contracted amount of consideration for the effects of any significant financing component.

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Disaggregation of Revenue

The following tables present our Net sales disaggregated by product line and geography.

In millions	Three	Nine
	Months	Months
	Ended	Ended
	September	September
	30, 2018	30, 2018
Automotive Technologies product line	\$ 86.6	\$ 258.6
Process Purification product line	9.7	29.3
Performance Materials segment	\$ 96.3	\$ 287.9
Oilfield Technologies product line	32.5	84.0
Pavement Technologies product line	68.1	152.2
Industrial Specialties product line	114.3	330.9
Performance Chemicals segment	\$ 214.9	\$ 567.1
Consolidated Net sales	\$ 311.2	\$ 855.0

The following table presents our Net sales disaggregated by geography, based on the delivery address of our customer.

In millions	Three	Nine
	Months	Months
	Ended	Ended
	September	September
	30, 2018	30, 2018
North America	\$ 220.6	\$ 587.3
Asia Pacific	45.0	121.9
Europe, Middle East and Africa	40.5	128.8
South America	5.1	17.0
Consolidated Net sales	\$ 311.2	\$ 855.0

Contract Balances

The following table provides information about contract assets and contract liabilities from contracts with customers. The contract assets primarily relate to our rights to consideration for products produced but not billed at the reporting date on contracts with certain customers. The contract assets are recognized as accounts receivables when the rights become unconditional and the customer has been billed. Contract liabilities represent obligations to transfer goods to a customer for which we have received consideration from our customer. For all periods presented we had no contract liabilities.

In millions	Contract
	Asset
Balance at January 1, 2018	\$ 4.4
Contract asset additions	12.3
Reclassification to accounts receivable, billed to customers	(11.9)
Balance at September 30, 2018 ⁽¹⁾	\$ 4.8

(1) Included within "Prepaid and other current assets" on the condensed consolidated balance sheet.

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Note 6: Financial Instruments, Risk Management, and Fair Value Measurements
Financial Instruments and Risk Management

Ingevity's operations are exposed to market risks, such as changes in foreign currency exchange rates and commodity prices due to transactions denominated in a variety of foreign currencies and purchases of certain commoditized raw materials and inputs. Changes in these rates and prices may have an impact on Ingevity's future cash flow and earnings. To mitigate these market risks and their effects, we enter into derivative financial instruments from time to time, which are governed by policies, procedures and internal processes set forth by our Board of Directors. Our risk management program also addresses counterparty credit risk by entering into derivative financial instruments with only major financial institutions with investment grade ratings. Once the derivative financial instrument is entered into, we continuously monitor the financial institutions' credit ratings and our credit risk exposure held by the financial institution. When appropriate, we reallocate exposures across multiple financial institutions to limit credit risk. If a counterparty fails to fulfill its performance obligations under the derivative financial instrument, then Ingevity is exposed to credit risk equal to the fair value of the financial instrument. Derivative assets and liabilities are reported on a net basis by counterparty, to the extent governed by master netting agreements, in the condensed consolidated balance sheets. Due to our proactive mitigation of these potential credit risks, we anticipate performance by our counterparties to these contracts and therefore no material loss is expected.

Foreign Currency Exchange Risk Management

We manufacture and sell our products in several countries throughout the world and, thus, we are exposed to changes in foreign currency exchange rates. To manage the volatility relating to these exposures, we net the exposures on a consolidated basis to take advantage of natural offsets. To manage the remaining exposure, from time to time, we utilize foreign currency exchange forward contracts to minimize the volatility to earnings and cash flows resulting from the effect of fluctuating foreign currency exchange rates on export sales denominated in foreign currencies (principally the euro). These contracts are generally designated as cash flow hedges. We began our foreign currency exchange risk hedging program in July 2017. As of September 30, 2018, open foreign currency derivative contracts hedge forecasted transactions until December 2018. These open derivative contracts hedge the notional U.S. dollar equivalent value of approximately \$7.5 million. The fair value of the foreign currency hedge was a \$0.5 million asset and zero at September 30, 2018 and December 31, 2017, respectively.

Commodity Price Risk Management

Certain energy sources used by the Company, are subject to price volatility caused by weather, supply and demand conditions, economic variables and other unpredictable factors. This volatility is primarily related to the market pricing of natural gas. To mitigate expected fluctuations in market prices and the volatility to earnings and cash flow resulting from changes to pricing of natural gas purchases, from time to time, we will enter into swap contracts and zero cost collar option contracts and designate these contracts as cash flow hedges. We began our commodity price risk hedging program in December 2017 and therefore prior to this date we had no derivative financial instruments designated to hedge commodity price risk. As of September 30, 2018, we had 1.3 million and 1.6 million mmBTUS (millions of British Thermal Units) in aggregate notional volume of outstanding natural gas commodity swap contracts and zero cost collar option contracts, respectively, designated as cash flow hedges. As of September 30, 2018, open commodity contracts hedge forecasted transactions until December 2019. The fair value of the outstanding designated natural gas commodity hedge contracts as of September 30, 2018 and December 31, 2017 was \$0.1 million asset and less than \$0.1 million asset, respectively.

Equity Securities

Our investments in equity securities with a readily determinable fair value totaled \$0.5 million at September 30, 2018 and \$1.8 million at December 31, 2017. The net realized gain/(loss) and unrealized gain/(loss) recognized during the three months ended September 30, 2018 was zero and zero, respectively. The net realized gain/(loss) and unrealized gain/(loss) recognized during the nine months ended September 30, 2018, was of zero and \$(0.1) million, respectively. The aggregate carrying value of investments in equity securities where fair value is not readily determinable totaled \$1.5 million as of September 30, 2018 and \$3.0 million as of December 31, 2017. During the three months ended September 30, 2018, we recorded an impairment charge of

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\$1.5 million to an equity security where fair value is not readily determinable held within our Performance Materials segment. The charge was based on recently updated expected future cash flow projections for the investment.

Fair-Value Measurements

We have categorized our assets and liabilities that are recorded at fair value, based on the priority of the inputs to the valuation technique, into a three-level fair-value hierarchy. The fair-value hierarchy gives the highest priority to quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). If the inputs used to measure the assets and liabilities fall within different levels of the hierarchy, the categorization is based on the lowest level input that is significant to the fair-value measurement of the instrument.

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The following information is presented for assets and liabilities that are recorded in the condensed consolidated balance sheets at fair value measured on a recurring basis. There were no transfers of assets and liabilities that are recorded at fair value between Level 1 and Level 2 during the period reported. There were no non-recurring fair value measurements in the condensed consolidated balance sheets as of September 30, 2018 or December 31, 2017.

In millions	Level 1 ⁽¹⁾	Level 2 ⁽²⁾	Level 3 ⁽³⁾	Total
September 30, 2018				
Assets:				
Equity securities ⁽⁴⁾	\$ 0.5	\$ —	\$ —	—\$0.5
Foreign currency hedging ⁽⁴⁾	—	0.5	—	0.5
Commodity hedging ⁽⁴⁾	—	0.1	—	0.1
Deferred compensation plan investments ⁽⁵⁾	2.3	—	—	2.3
Total assets	\$ 2.8	\$ 0.6	\$ —	—\$3.4
Liabilities:				
Deferred compensation arrangement ⁽⁵⁾	\$ 4.5	\$ —	\$ —	—\$4.5
Separation-related reimbursement awards ⁽⁶⁾	0.3	—	—	0.3
Total liabilities	\$ 4.8	\$ —	\$ —	—\$4.8
December 31, 2017				
Assets:				
Equity securities ⁽⁴⁾	\$ 1.8	\$ —	\$ —	—\$1.8
Total assets	\$ 1.8	\$ —	\$ —	—\$1.8
Liabilities:				
Deferred compensation arrangement ⁽⁵⁾	\$ 2.0	\$ —	\$ —	—\$2.0
Separation-related reimbursement awards ⁽⁶⁾	0.9	—	—	0.9
Total liabilities	\$ 2.9	\$ —	\$ —	—\$2.9

(1) Quoted prices in active markets for identical assets.

(2) Quoted prices for similar assets and liabilities in active markets.

(3) Significant unobservable inputs.

(4) Represents securities with readily determinable fair value. Securities are included within "Prepaid and other current assets" on the condensed consolidated balance sheet.

(5) Consists of a deferred compensation arrangement, through which we hold various investment securities, recognized on our balance sheets. Both the asset and liability are recorded at fair value, and are included within "Other assets" and "Other liabilities" on the condensed consolidated balance sheets, respectively.

(6) Included within "Accrued expenses" on the condensed consolidated balance sheet. The expense recognized during the three and nine months ended September 30, 2018, was \$0.1 million and zero, and during the three and nine months ended September 30, 2017, was zero and \$0.3 million, respectively.

At September 30, 2018, the book value of capital lease obligations was \$80.0 million and the fair value was \$88.4 million. The fair value of our capital lease obligations is based on the period-end quoted market prices for the obligations, using Level 2 inputs.

The carrying amount, excluding debt issuance fees, of our variable interest rate long-term debt is \$370.3 million as of September 30, 2018. The carrying value is a reasonable estimate of the fair value of the outstanding debt based on the variable interest rate of the debt.

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At September 30, 2018, the book value of our fixed rate debt, the senior notes issued January 24, 2018, was \$300.0 million, and the fair value was \$286.3 million, based on Level 2 inputs. At September 30, 2018, the book value of our Restricted investment was \$70.7 million, and the fair value was \$66.4 million, based on Level 1 inputs. The carrying value of our financial instruments: cash and cash equivalents, other receivables, other payables and accrued liabilities approximate their fair values due to the short-term nature of these financial instruments.

Note 7: Inventories, net

In millions	September 30, December 31,		
	2018	2017	
Raw materials	\$ 40.8	\$ 40.1	
Production materials, stores and supplies	16.8	13.4	
Finished and in-process goods	145.2	114.3	
Subtotal	202.8	167.8	
Less: excess of cost over LIFO cost	(8.5) (7.8)
Inventories, net	\$ 194.3	\$ 160.0	

Note 8: Property, plant and equipment, net

In millions	September 30, December 31,		
	2018	2017	
Machinery and equipment	\$ 835.2	\$ 792.5	
Buildings and leasehold equipment	112.2	115.0	
Land and land improvements	19.6	18.0	
Construction in progress	70.1	35.8	
Total cost	1,037.1	961.3	
Less: accumulated depreciation	(538.2) (522.8)
Property, plant and equipment, net	\$ 498.9	\$ 438.5	

Note 9: Goodwill and other intangible assets, net

In millions	Operating Segments			
	Performance		Total	
	Chemical	Materials		
December 31, 2017	\$8.1	\$ 4.3	\$12.4	
Acquisitions ⁽¹⁾	118.7	—	118.7	
Foreign currency translation	(0.5) —	(0.5)
September 30, 2018	\$126.3	\$ 4.3	\$130.6	

(1) See Note 4 for more information.

There were no events or circumstances indicating that goodwill might be impaired during the nine months ended September 30, 2018.

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All of our other intangible assets, net are related to the Performance Chemicals operating segment. The following table summarizes intangible assets:

In millions	September 30, 2018			December 31, 2017		
	Gross carrying amount	Accumulated amortization	Net	Gross carrying amount	Accumulated amortization	Net
Brands ⁽¹⁾	\$13.9	\$ 12.2	\$1.7	\$13.9	\$ 11.8	\$2.1
Patents ⁽²⁾	1.9	0.2	1.7	—	—	—
Customer contracts and relationships ⁽²⁾	157.2	33.2	124.0	28.2	25.4	2.8
Non-compete agreements ⁽²⁾	2.2	0.4	1.8	—	—	—
Other intangibles, net	\$175.2	\$ 46.0	\$129.2	\$42.1	\$ 37.2	\$4.9

(1) Represents trademarks, trade names and know-how.

(2) See Note 4 for more information.

The amortization expense related to our intangible assets in the table above is shown in the table below.

In millions	Three Months Ended September 30, 2018		Nine Months Ended September 30, 2017	
	2018	2017	2018	2017
Cost of sales	\$0.2	\$0.3	\$0.6	\$1.0
Selling, general and administrative expenses	3.4	0.3	8.2	0.9
Total amortization expense	\$3.6	\$0.6	\$8.8	\$1.9

Based on the current carrying values of intangible assets, estimated pre-tax amortization expense for the next five years is as follows: 2018 - \$12.3 million, 2019 - \$14.3 million, 2020 - \$13.2 million, 2021 - \$12.3 million and 2022 - \$12.2 million.

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Note 10: Debt including capital lease obligations

Current and long-term debt including capital lease obligations consisted of the following:

In millions, except percentages	September 30, 2018		September 30,	December 31,
	Interest rate	Maturity date	2018	2017
Revolving credit facility ⁽¹⁾	3.51%	2023	\$ —	\$ —
Term loan facility	3.49%	2023	375.0	375.0
Senior notes	4.50%	2026	300.0	—
Capital lease obligations	7.67%	2027	80.0	80.0
Other	5.09%	2018-2021	0.7	—
Total debt including capital lease obligations			755.7	455.0
Less: debt issuance costs			6.8	1.6
Total debt including capital lease obligations, net of debt issuance costs			748.9	453.4
Less: debt maturing within one year ⁽²⁾			4.9	9.4
Long-term debt including capital lease obligations			\$ 744.0	\$ 444.0

(1) Letters of credit outstanding under the revolving credit facility were \$1.8 million and available funds under the facility were \$748.2 million at September 30, 2018.

(2) Debt maturing within one year is included in "Notes payable and current maturities of long-term debt" on the condensed consolidated balance sheets.

Revolving Credit and Term Loan Facility Amendment

On August 7, 2018, we entered into an Incremental Facility Agreement and Amendment No. 2 (the "Amendment") to the Credit Agreement, dated as of March 7, 2016 (the "Existing Credit Agreement", and as amended, supplemented or otherwise modified from time to time, including pursuant to the Incremental Facility Agreement and Amendment No. 1, dated as of August 21, 2017, and the Amendment, the "Amended Credit Agreement"). Among other things, the Amendment (i) increased the revolving commitments under the Existing Credit Agreement by \$200.0 million (the "Incremental Revolving Commitments") and (ii) reduced the Applicable Rate (as defined in the Amended Credit Agreement). The Amendment also extended the maturity date for the loans and commitments under the Existing Credit Agreement to August 7, 2023.

The Incremental Revolving Commitments have terms identical to those of the Revolving Commitments under the Existing Credit Agreement and will be treated as a single class with such existing commitments under the Amended Credit Agreement.

Loans under the Amended Credit Agreement bear interest at either (a) an adjusted base rate or (b) an adjusted LIBOR rate, in each case, plus an applicable margin (the "Applicable Margin"), in the case of base rate loans, ranging between 0.00 percent and 0.75 percent, and in the case of adjusted LIBOR rate loans, ranging between 1.00 percent and 1.75 percent. The Applicable Margin is based on a total leverage based pricing grid. Fees to revolving lenders under the Amended Credit Agreement, including fees in respect of the Incremental Revolving Commitments, include (i) commitment fees, based on a percentage of the daily unused portions of the facility, ranging from 0.15 percent to 0.30 percent and (ii) customary letter of credit fees.

As consideration for the Amendment, the Company paid to each lender under the Existing Credit Agreement a consent fee equal to 0.05 percent of the aggregate principal amount of the commitments and outstanding loans held by such lender immediately prior to the Closing Date. Fees of \$1.4 million were incurred to secure the Amended Credit Agreement. These fees have been deferred and will be amortized over the term of the arrangement.

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The credit facilities under the Amended Credit Agreement will mature on August 7, 2023. The Initial Term Loans and the Incremental Term A Loans (each, as defined in the Amended Credit Agreement) will amortize at a rate equal to 1.25 percent per quarter starting in September 2019, with the balance due at maturity.

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2018 Senior Notes

On January 24, 2018, we issued \$300.0 million aggregate principal amount of 4.50 percent senior unsecured notes due 2026 (the “Notes”). The Notes were issued pursuant to an indenture dated as of January 24, 2018 (the “Indenture”), by and among Ingevity, the subsidiary guarantors party thereto and U.S. Bank National Association, as trustee. The Notes were offered and sold only to qualified institutional buyers pursuant to Rule 144A and to certain non-U.S. persons in transactions outside the United States pursuant to Regulation S under the Securities Act of 1933, as amended (the “Securities Act”). The Notes have not been registered under the Securities Act or any state securities laws and may not be offered or sold in the United States absent registration or an applicable exemption from the registration requirements of the Securities Act and applicable state laws.

The net proceeds from the sale of the Notes, after deducting deferred issuance costs of \$5.7 million, were approximately \$294.3 million. We used the net proceeds from the sale of the Notes to finance, in part, our purchase of substantially all the assets primarily used in the pine chemical business of Georgia-Pacific Chemicals LLC and Georgia-Pacific LLC.

Interest payments on the Notes are due semiannually in arrears on February 1st and August 1st of each year, beginning on August 1, 2018, at a rate of 4.50 percent per year. The Notes will mature on February 1, 2026.

Financial Covenants

The Indenture contains certain customary covenants (including covenants limiting Ingevity's and its restricted subsidiaries' ability to grant or permit liens on certain property securing debt, declare or pay dividends, make distributions on or repurchase or redeem capital stock, make investments in unrestricted subsidiaries, engage in sale and lease-back transactions, and engage in a consolidation or merger, or sell, transfer or otherwise dispose of all or substantially all of the assets of our and our restricted subsidiaries, taken as a whole) and events of default (subject in certain cases to customary exceptions, as well as grace and cure periods). The occurrence of an event of default under the Indenture could result in the acceleration of the Notes and could cause a cross-default that could result in the acceleration of other indebtedness of Ingevity and its subsidiaries.

The revolving credit facility and term loan facility include financial covenants requiring Ingevity to maintain on a consolidated basis a maximum total leverage ratio of 4.00 to 1.00 (which may be increased to 4.50 to 1.00 under certain circumstances) and a minimum interest coverage ratio of 3.00 to 1.00. We were in compliance with all covenants at September 30, 2018.

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Note 11: Equity
Ingevity Stockholders' Equity

In millions, except per share data	Common Stock		Additional paid in capital	Retained earnings	Accumulated other comprehensive income (loss)	Treasury stock	Total
	Shares	Amount					
Balance at December 31, 2017	42,209	\$ 0.4	\$ 140.1	\$ 142.8	\$ (11.7)	\$(7.7)	\$263.9
Net income (loss)	—	—	—	127.0	—	—	127.0
Other comprehensive income (loss)	—	—	—	—	(6.1)	—	(6.1)
Common stock issued	107	—	—	—	—	—	—
Exercise of stock options, net	6	—	0.2	—	—	—	0.2
Tax payments related to vested restricted stock units	—	—	—	—	—	(2.1)	(2.1)
Share repurchase program	—	—	—	—	—	(18.1)	(18.1)
Share-based compensation plans	—	—	10.0	—	—	1.5	11.5
Adoption of ASC 606	—	—	—	1.6	—	—	1.6
Acquisition of noncontrolling interest	—	—	(55.2)	—	—	—	(55.2)
Balance at September 30, 2018	42,322	\$ 0.4	\$ 95.1	\$ 271.4	\$ (17.8)	\$(26.4)	\$322.7

Noncontrolling Interest

In millions	2018	2017
Balance at December 31,	\$14.0	\$7.6
Net income (loss) attributable to noncontrolling interests	12.7	12.3
Noncontrolling interest distributions	(15.3)	(8.2)
Acquisition of noncontrolling interest	\$(11.4)	\$—
Balance at September 30,	\$—	\$11.7

Ingevity Stockholders' Equity

In millions, except per share data	Common Stock		Additional paid in capital	Retained earnings	Accumulated other comprehensive income (loss)	Treasury stock	Total
	Shares	Amount					
Balance at June 30, 2018	42,309	\$ 0.4	\$ 146.9	\$ 221.9	\$ (14.0)	\$(17.2)	\$338.0
Net income (loss)	—	—	—	49.5	—	—	49.5
Other comprehensive income (loss)	—	—	—	—	(3.8)	—	(3.8)
Common stock issued	13	—	—	—	—	—	—
Exercise of stock options, net	—	—	—	—	—	—	—
Tax payments related to vested restricted stock units	—	—	—	—	—	(0.6)	(0.6)
Share repurchase program	—	—	—	—	—	(9.0)	(9.0)
Share-based compensation plans	—	—	3.4	—	—	0.4	3.8
Adoption of ASC 606	—	—	—	—	—	—	—
Acquisition of noncontrolling interest	—	\$ —	\$(55.2)	\$ —	\$ —	\$ —	\$(55.2)
Balance at September 30, 2018	42,322	\$ 0.4	\$ 95.1	\$ 271.4	\$ (17.8)	\$(26.4)	\$322.7

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Noncontrolling Interest

In millions	2018	2017
Balance at June 30,	\$11.3	\$10.5
Net income (loss) attributable to noncontrolling interests	2.2	4.6
Noncontrolling interest distributions	(2.1)	(3.4)
Acquisition of noncontrolling interest	\$(11.4)	\$—
Balance at September 30,	\$—	\$11.7

Noncontrolling interest acquisition

On August 1, 2018, we completed the acquisition of the remaining 30 percent noncontrolling interest in Purification Cellutions LLC, which was treated as a partnership for tax purposes, for a purchase price of \$80.0 million. The acquisition resulted in the elimination of Noncontrolling interest (\$11.4 million) and the recognition of a Deferred tax asset (\$13.4 million), with the remainder being recorded against Additional paid in capital (\$55.2 million) in our Condensed Consolidated Financial Statements.

Share Repurchases

On February 20, 2017, our Board of Directors authorized the repurchase of up to \$100 million of our common stock. The repurchase program does not include a specific timetable or price targets and may be suspended or terminated at any time. Share repurchases may be made from time to time in either open market or private transactions. The repurchase program does not require us to acquire any specific number of shares, and the program may be suspended or discontinued at any time. The timing, volume and nature of share repurchases will be at the discretion of management, depending on market conditions, alternative options for the use of cash, applicable securities laws and other factors.

During the three months ended September 30, 2018, we repurchased 93,900 shares of our common stock at a weighted average cost per share of \$96.01. During the nine months ended September 30, 2018, we repurchased 211,000 shares of our common stock at a weighed average cost per share of \$85.89. At September 30, 2018, \$75.3 million remained unused under our Board-authorized repurchase program. We record shares of common stock repurchased at cost as treasury stock, resulting in a reduction of stockholders' equity in the condensed consolidated balance sheets. When the treasury shares are contributed under our employee benefit plans or issued for option exercises, we use a first-in, first-out ("FIFO") method for determining cost. The difference between the cost of the shares and the market price at the time of contribution to an employee benefit plan is added to or deducted from additional paid in capital.

On November 1, 2018, our Board of Directors authorized the repurchase of up to \$350 million of our common stock, in addition to the remaining authorization from February 20, 2017. The repurchase program does not include a specific timetable or price targets and may be suspended or terminated at any time. Share repurchases may be made from time to time in either open market or private transactions. The repurchase program does not require us to acquire any specific number of shares, and the program may be suspended or discontinued at any time. The timing, volume and nature of share repurchases will be at the discretion of management, depending on market conditions, alternative options for the use of cash, applicable securities laws and other factors.

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Note 12: Retirement Plans

The following table summarizes the components of net periodic benefit cost (income) for our defined benefit pension plans:

In millions	Three Months Ended			
	September 30,			
	Pensions		Other Benefits	
	2018	2017	2018	2017
Components of net periodic benefit cost (income):				
Service cost ⁽¹⁾	\$0.5	\$0.3	\$ —	\$ —
Interest cost ⁽²⁾	0.2	0.2	—	—
Expected return on plan assets ⁽²⁾	(0.2)	(0.2)	—	—
Recognized net actuarial and other (gain) loss ⁽²⁾	—	—	—	—
Net periodic benefit cost (income)	\$0.5	\$0.3	\$ —	\$ —

(1)Included in "Cost of sales" on the condensed consolidated statements of operations.

(2)Included in "Other (income) expense, net" on the condensed consolidated statements of operations.

In millions	Nine Months Ended			
	September 30,			
	Pensions		Other Benefits	
	2018	2017	2018	2017
Components of net periodic benefit cost (income):				
Service cost ⁽¹⁾	\$1.3	\$0.8	\$ —	\$ —
Interest cost ⁽²⁾	0.6	0.6	—	—
Expected return on plan assets ⁽²⁾	(0.6)	(0.6)	—	—
Recognized net actuarial and other (gain) loss ⁽²⁾	0.1	—	—	—
Net periodic benefit cost (income)	\$1.4	\$0.8	\$ —	\$ —

(1)Included in "Cost of sales" on the condensed consolidated statements of operations.

(2)Included in "Other (income) expense, net" on the condensed consolidated statements of operations.

We made a voluntary cash contribution of \$1.5 million to our Union Hourly defined benefit pension plan in the three and nine months ended September 30, 2018. There are no required cash contributions to our Union Hourly defined benefit pension plan in 2018, and we currently have no plans to make any additional voluntary cash contributions for the remainder of the year.

Note 13: Restructuring and other (income) charges, net

We continually perform strategic reviews and assess the return on our operations which sometimes results in a plan to restructure the business. The cost and benefit of these strategic restructuring initiatives are recorded as restructuring and other (income) charges, net in our condensed consolidated statements of operations. These costs are excluded from our operating segment results.

We record an accrual for severance and other non-recurring costs under the provisions of the relevant accounting guidance. Additionally, in some restructuring plans write-downs of long-lived assets may occur. Two types of assets are impacted: assets to be disposed of by sale and assets to be abandoned. Assets to be disposed of by sale are

measured at the lower of carrying amount or estimated net proceeds from the sale. Assets to be abandoned with no remaining future service potential are written down to amounts expected to be recovered. The useful life of assets to be abandoned that have a remaining future service potential are adjusted and depreciation is recorded over the adjusted useful life. Below provides detail of the Restructuring and other (income) charges, net incurred.

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Detail on the restructuring charges and asset disposal activities is provided below.

In millions	Three Months Ended September 30, 2018		Nine Months Ended September 30, 2017	
	2018	2017	2018	2017
Restructuring and other (income) charges, net				
Gain on sale of assets and businesses	\$ —	\$ —	\$(0.6)	\$ —
Severance and other employee-related costs ⁽¹⁾	—	—	—	1.3
Other (income) charges, net ⁽²⁾	—	0.1	—	2.2
Total restructuring and other (income) charges, net	\$ —	\$ 0.1	\$(0.6)	\$ 3.5

⁽¹⁾ Represents severance and employee benefit charges. Income represents adjustments to previously recorded severance and employee benefits.

⁽²⁾ Primarily represents costs associated with rental payments, contract terminations, and other miscellaneous exit costs. Other income primarily represents favorable developments on previously recorded exit costs as recoveries associated with restructuring activities.

2018 activities

In February 2018, we sold assets from the Performance Chemicals derivatives operations in Duque De Caxias, Rio de Janeiro, Brazil. These assets were part of a facility that was closed as a result of a restructuring event in 2016. As a result of this sale, we recorded zero and \$0.6 million as a gain on sale of assets in the three and nine months ended September 30, 2018, respectively.

2017 activities

In January 2017, we initiated a reorganization to streamline our leadership team, flatten the organization and reduce costs. As a result of this reorganization, we recorded zero and \$1.3 million, respectively, in severance and other employee-related costs in the three and nine months ended September 30, 2017.

During the three and nine months ended September 30, 2017, we also recorded \$0.1 million and \$2.2 million, respectively, of additional miscellaneous exit costs primarily associated with the exit of our Performance Chemicals' manufacturing operations in Palmeira, Santa Catarina, Brazil which began in the fourth quarter of 2016.

Roll forward of Restructuring Reserves

The following table shows a roll forward of restructuring reserves that will result in cash spending.

In millions	Balance at 12/31/2017 ⁽¹⁾	Change in Reserve ⁽²⁾	Cash Payments	Other ⁽³⁾	Balance at 9/30/2018 ⁽¹⁾
Restructuring Reserves	\$ 0.2	—	(0.1)	—	\$ 0.1

⁽¹⁾Included in "Accrued expenses" on the condensed consolidated balance sheets.

⁽²⁾Includes severance and other employee-related costs, exited leases, contract terminations and other miscellaneous exit costs. Any asset write-downs including accelerated depreciation and impairment charges are not included in the above table.

⁽³⁾Primarily foreign currency translation adjustments.

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Note 14: Income Taxes

For the three and nine months ended September 30, 2018 and 2017, the effective tax rates, including discrete items, were as follows:

	Three Months Ended		Nine Months Ended	
	September 30,		September 30,	
	2018	2017	2018	2017
Effective tax rate	24.1 %	30.3 %	21.6 %	31.6 %

We determine our interim tax provision using an Estimated Annual Effective Tax Rate methodology (“EAETR”). The EAETR is applied to the year-to-date ordinary income, exclusive of discrete items. The tax effects of discrete items are then included to arrive at the total reported interim tax provision.

The determination of the EAETR is based upon a number of estimates, including the estimated annual pre-tax ordinary income in each tax jurisdiction in which we operate. As our projections of ordinary income change throughout the year, the EAETR will change period-to-period. The tax effects of discrete items are recognized in the tax provision in the period they occur. Depending on various factors, such as the item’s significance in relation to total income and the rate of tax applicable in the jurisdiction to which it relates, discrete items in any quarter may materially impact the reported effective tax rate. As a global enterprise, our tax expense may be impacted by changes in tax rates or laws, the finalization of tax audits and reviews, as well as other factors. As such, there may be significant volatility in interim tax provisions.

The below table provides a reconciliation between our reported effective tax rates and the EAETR.

In millions, except percentages	Three Months Ended September 30,		Three Months Ended September 30,	
	2018		2017	
	Before tax	Effective tax rate %	Before tax	Effective tax rate %
		impact		impact
Consolidated operations	\$68.1	\$16.4 24.1 %	\$55.1	\$16.7 30.3 %
Discrete items:				
Separation costs	—	—	0.2	0.1
Restructuring and other (income) charges, net	—	—	0.1	0.1
Acquisition and other related costs ⁽¹⁾	—	—	4.1	1.5
Results of legal entities with full valuation allowances ⁽²⁾	—	—	0.5	—
Other tax only discrete items	—	0.2	—	0.1
Total discrete items	—	0.2	4.9	1.8
Consolidated operations, before discrete items	\$68.1	\$16.6	\$60.0	\$18.5
Quarterly effect of changes in the EAETR ⁽³⁾		24.4 %		30.8 %

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In millions, except percentages	Nine Months Ended September 30, 2018		2017		Effective tax rate	
	Before tax	Tax	Before tax	Tax	Effective tax rate	Effective tax rate
					impact	impact
Consolidated operations	\$178.2	\$38.5	21.6 %	\$142.1	\$44.9	31.6 %
Discrete items:						
Separation costs	—	—		0.7	0.3	
Restructuring and other (income) charges, net	(0.6)	—		3.5	0.7	
Acquisition and other related costs ⁽¹⁾	5.7	1.3		4.1	1.5	
Results of legal entities with full valuation allowances ⁽²⁾	—	—		2.0	—	
Other tax only discrete items	—	0.3		—	(0.3)	
Total discrete items	5.1	1.6		10.3	2.2	
Consolidated operations, before discrete items	\$183.3	\$40.1		\$152.4	\$47.1	
EAETR ⁽³⁾			21.9 %			30.9 %

Charges primarily relate to legal and professional fees and inventory step-up amortization incurred associated with the Acquisition. The legal and professional fees of \$4.3 million and the inventory step-up amortization of \$1.4 million are included in "Acquisition-related costs" and "Cost of sales" on the condensed consolidated statement of operations, respectively.

(1) Legal entities within the consolidated results of Ingevity with full valuation allowances are treated discretely for income tax purposes.

(2) Legal entities within the consolidated results of Ingevity with full valuation allowances are treated discretely for income tax purposes.

(3) Decrease in EAETR for the three and nine months ended September 30, 2018, as compared to September 30, 2017, is primarily due to the effect of U.S. Tax Reform, which was enacted in December 2017.

On December 22, 2017, Staff Accounting Bulletin No. 118 ("SAB 118") was issued to address the application of GAAP in situations when a registrant does not have the necessary information available, prepared, or analyzed (including computations) in reasonable detail to complete the accounting for certain income tax effects of U.S. Tax Reform. In accordance with SAB 118, we determined that the \$24.5 million of the provisional deferred tax expense recorded in connection with the re-measurement of certain deferred tax assets and liabilities and current tax expense recorded in connection with any other provisions of U.S. Tax Reform were reasonable estimates at December 31, 2017. In the nine months ended September 30, 2018, no additional adjustments were recorded in relation to the re-measurement of certain deferred tax assets and liabilities and minimal current tax expense was recorded in connection with other provisions of U.S. Tax Reform. Additional work may be necessary as the U.S. Treasury Department, the IRS, or other standard setting bodies interpret or issue new guidance on how the provisions of U.S. Tax Reform should be applied that may be different from our interpretation as of the date of this filing. Any subsequent adjustment to these amounts will be recorded to current tax expense in the period when the analysis is complete.

Note 15: Commitments and contingencies

Legal Proceedings

We are, from time to time, involved in routine litigation incidental to our operations. None of the litigation in which we are currently involved, individually or in the aggregate, is material to our consolidated financial condition, liquidity or results of operations nor are we aware of any material pending or contemplated proceedings.

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Note 16: Segment information

In millions	Three Months		Nine Months	
	Ended		Ended	
	September 30,	September 30,	September 30,	September 30,
	2018	2017	2018	2017
Net sales				
Performance Materials	\$96.3	\$85.4	\$287.9	\$258.3
Automotive Technologies product line	86.6	75.6	258.6	230.1
Process Purifications product line	9.7	9.8	29.3	28.2
Performance Chemicals	\$214.9	\$178.7	\$567.1	\$484.6
Oilfield Technologies product line	32.5	20.3	84.0	58.1
Pavement Technologies product line	68.1	64.5	152.2	137.2
Industrial Specialties product line	114.3	93.9	330.9	289.3
Total net sales ⁽¹⁾	\$311.2	\$264.1	\$855.0	\$742.9
Segment operating profit ⁽²⁾				
Performance Materials	\$36.3	\$29.3	\$109.8	\$89.5
Performance Chemicals	39.7	33.4	95.3	70.2
Total segment operating profit ⁽¹⁾	\$76.0	\$62.7	\$205.1	\$159.7
Separation costs ⁽³⁾	—	(0.2)	—	(0.7)
Restructuring and other income (charges), net ⁽⁴⁾	—	(0.1)	0.6	(3.5)
Acquisition and other related costs ⁽⁵⁾	—	(4.1)	(5.7)	(4.1)
Interest expense, net	(7.9)	(3.2)	(21.8)	(9.3)
(Provision) benefit for income taxes	(16.4)	(16.7)	(38.5)	(44.9)
Net (income) loss attributable to noncontrolling interest	(2.2)	(4.6)	(12.7)	(12.3)
Net income (loss) attributable to Ingevity stockholders	\$49.5	\$33.8	\$127.0	\$84.9

(1) Relates to external customers only, all intersegment sales and related profit have been eliminated in consolidation.

Segment operating profit is defined as segment revenue less segment operating expenses (segment operating expenses consist of costs of sales, selling, general and administrative expenses and other (income) expense, net).

(2) We have excluded the following items from segment operating profit: interest expense associated with corporate debt facilities, income taxes, gains (or losses) on divestitures of businesses, restructuring and other (income) charges, separation costs, acquisition and other related costs and net income (loss) attributable to noncontrolling interest.

(3) Represents transaction costs associated with separation of Ingevity from Westrock. These costs are primarily related to professional fees associated with separation activities within the finance, tax, and legal functions.

(4) Income (charges) for all periods presented related to our Performance Chemicals segment.

(5) Charges associated with the acquisition and integration of the Pine Chemical Business. See below for more detail on the charges incurred and Note 4 within these Condensed Consolidated Financial Statements for more information.

Three	Nine
Months	Months
Ended	Ended
September	September

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In millions	30, 2018	30, 2017	2018	2017
Legal and professional service fees ⁽¹⁾	\$ —	\$ 4.1	\$ 4.3	\$ 4.1
Inventory fair value step-up amortization ⁽²⁾	—	—	1.4	—
Acquisition and other related costs	\$ —	\$ 4.1	\$ 5.7	\$ 4.1

(1) Included within "Acquisition and other related costs" on the condensed consolidated statement of operations.

(2) Included within "Cost of sales" on the condensed consolidated statement of operations.

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Note 17: Earnings (loss) per share

Basic earnings (loss) per share is computed by dividing net income (loss) attributable to Ingevity stockholders for the period by the weighted average number of common shares outstanding during the period. Diluted earnings (loss) per share is computed by dividing net income (loss) attributable to Ingevity stockholders for the period by the weighted average number of shares of common stock and potentially dilutive common stock outstanding for the period. The calculation of diluted net income per share excludes all anti-dilutive common shares.

	Three Months Ended September 30,		Nine Months Ended September 30,	
In millions, except share and per share data	2018	2017	2018	2017
Net income (loss) attributable to Ingevity stockholders	\$49.5	\$ 33.8	\$127.0	\$ 84.9
Basic and Diluted earnings (loss) per share				
Basic earnings (loss) per share attributable to Ingevity stockholders	\$1.18	\$ 0.80	\$3.02	\$ 2.01
Diluted earnings (loss) per share attributable to Ingevity stockholders	1.16	0.79	2.98	2.00
Shares (in thousands)				
Weighted average number of common stock outstanding - Basic	42,037	42,139	42,070	42,137
Weighted average additional shares assuming conversion of potential common stock	620	410	554	383
Shares - diluted basis	42,657	42,549	42,624	42,520

The following average number of potential common shares were antidilutive and, therefore, were not included in the diluted earnings per share calculation:

	Three Months Ended September 30,		Nine Months Ended September 30,	
In thousands	2018	2017	2018	2017
Average number of potential common shares - antidilutive	17	93	77	94

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Introduction

Management's discussion and analysis of Ingevity's financial condition and results of operations ("MD&A") is provided as a supplement to the Condensed Consolidated Financial Statements and related notes included elsewhere herein to help provide an understanding of our financial condition, changes in financial condition and results of our operations.

Cautionary Statements About Forward-Looking Statements

This section and other parts of this Quarterly Report on Form 10-Q contain forward-looking statements, within the meaning of the Securities Exchange Act of 1934, as amended (the "Exchange Act") and the Private Securities Litigation Reform Act of 1995 that reflect our current expectations, beliefs, plans or forecasts with respect to, among other things, future events and financial performance. Forward-looking statements are often characterized by words or phrases such as "may," "will," "could," "should," "would," "anticipate," "estimate," "expect," "project," "intend," "plan," "believe," "prospects," "potential" and "forecast," and other words, terms and phrases of similar meaning. Forward-looking statements involve estimates, expectations, projections, goals, forecasts, assumptions, risks and uncertainties. We caution readers that a forward-looking statement is not a guarantee of future performance and that actual results could differ materially from those contained in the forward-looking statement. Such risks and uncertainties include, among others, those discussed in Item 1A of our Annual Report on Form 10-K for the year ended December 31, 2017 (the "2017 Annual Report") as well as in our unaudited Condensed Consolidated Financial Statements, related notes, and the other information appearing elsewhere in this report and our other filings with the Securities and Exchange Commission (the "SEC"). We do not intend, and undertake no obligation, to update any of our forward-looking statements after the date of this report to reflect actual results or future events or circumstances. Given these risks and uncertainties, readers are cautioned not to place undue reliance on such forward-looking statements. In addition to any such risks, uncertainties and other factors discussed elsewhere herein, risks, uncertainties and other factors that could cause or contribute to actual results differing materially from those expressed or implied by the forward-looking statements include, but are not limited to the following:

- we are exposed to risks that the expected benefits from the acquisition of Georgia Pacific's pine chemical business will not be realized or will not be realized within the expected time period, the risk that the businesses will not be integrated successfully, and the risk of significant transaction costs and unknown or understated liabilities;
- we may be adversely affected by general economic and financial conditions beyond our control;
- we are exposed to risks related to our international sales and operations;
- our reported results could be adversely affected by currency exchange rates and currency devaluation could impair our competitiveness;
- our operations outside the U.S. require us to comply with a number of U.S. and foreign regulations, violations of which could have a material adverse effect on our financial condition and results of operations;
- we are dependent upon attracting and retaining key personnel;
- adverse conditions in the global automotive market or adoption of alternative or competitive technologies may adversely affect demand for our automotive carbon products;
- we face competition from producers of alternative products and new technologies, and new or emerging competitors;
- if increasingly more stringent air quality standards worldwide are not adopted, our growth could be impacted;
 - we may be adversely affected by a decrease in government infrastructure spending;
- our printing inks business serves customers in a market that is facing declining volumes;
- our Performance Chemicals segment is highly dependent on crude tall oil ("CTO") which is limited in supply;
- lack of access to sufficient CTO would impact our ability to produce CTO-based products;

- a prolonged period of low energy prices may materially impact our results of operations;
- we are dependent upon third parties for the provision of certain critical operating services at several of our facilities;
- the occurrence of a natural disaster, such as a hurricane, winter or tropical storm, earthquake, tornado, flood, fire or
- other matters such as labor difficulties, equipment failure or unscheduled maintenance and repair, which could result in operational disruptions of varied duration;
- if we are unable to protect our intellectual property and other proprietary information we may lose significant competitive advantage;
- information technology security risks;
- government policies and regulations, including, but not limited to, those affecting the environment, climate change, tax policies, tariffs, and the chemicals industry; and
- losses due to lawsuits arising out of environmental damage or personal injuries associated with chemical or other manufacturing processes.

Overview

Ingevity is a leading global manufacturer of specialty chemicals and high performance activated carbon materials. We provide innovative solutions to meet our customers' unique and demanding requirements through proprietary formulated products. We report in two business segments: Performance Materials and Performance Chemicals. Our Performance Materials segment consists of our automotive technologies and process purifications product lines. Performance Materials manufactures products in the form of powder, granular, extruded pellets or structured honeycombs and activated carbon sheets. Automotive technologies products are sold into the gasoline vapor emission control markets within the automotive industry while process purifications products are sold into the food, water, beverage, air emissions control, corrosion protection, odor reduction and chemical purification industries. Our Performance Chemicals segment consists of our pavement technologies, oilfield technologies and industrial specialties product lines. Performance Chemicals manufactures products derived from crude tall oil and lignin extracted from the kraft paper making process. Performance Chemicals products serve as critical inputs used in a variety of high performance applications, including asphalt paving (pavement technologies product line), oil exploration and production (oilfield technologies product line), printing inks, adhesives, agrochemicals, and lubricants (industrial specialties product line).

Recent Developments

Revolving Credit and Term Loan Facility Amendment

On August 7, 2018, we entered into an Incremental Facility Agreement and Amendment No. 2 (the "Amendment") to the Credit Agreement, dated as of March 7, 2016 (the "Existing Credit Agreement", and as amended, supplemented or otherwise modified from time to time, including pursuant to the Incremental Facility Agreement and Amendment No. 1, dated as of August 21, 2017, and the Amendment, the "Amended Credit Agreement"). Among other things, the Amendment (i) increased the revolving commitments under the Existing Credit Agreement by \$200,000,000 (the "Incremental Revolving Commitments") and (ii) reduced the Applicable Rate (as defined in the Amended Credit Agreement). The Amendment also extended the maturity date for the loans and commitments under the Existing Credit Agreement to August 7, 2023.

The Incremental Revolving Commitments have terms identical to those of the Revolving Commitments under the Existing Credit Agreement and will be treated as a single class with such existing commitments under the Amended Credit Agreement.

Loans under the Amended Credit Agreement bear interest at either (a) an adjusted base rate or (b) an adjusted LIBOR rate, in each case, plus an applicable margin (the "Applicable Margin"), in the case of base rate loans, ranging between 0.00 percent and 0.75 percent, and in the case of adjusted LIBOR rate loans, ranging between 1.00 percent and 1.75 percent. The Applicable Margin is based on a total leverage based pricing grid. Fees to revolving lenders under the Amended Credit Agreement, including fees in respect of the Incremental Revolving Commitments, include (i) commitment fees, based on a percentage of the daily unused portions of the facility, ranging from 0.15 percent to 0.30 percent and (ii) customary letter of credit fees.

As consideration for the Amendment, the Company paid to each lender under the Existing Credit Agreement a consent fee equal to 0.05 percent of the aggregate principal amount of the commitments and outstanding loans held by such lender immediately prior to the Closing Date.

The credit facilities under the Amended Credit Agreement will mature on August 7, 2023. The Initial Term Loans and the Incremental Term A Loans (each, as defined in the Amended Credit Agreement) will amortize at a rate equal to 1.25 percent per quarter starting in September 2019, with the balance due at maturity.

Acquisition of Noncontrolling Interest

On August 1, 2018, we acquired the remaining 30 percent interest in Purification Cellutions LLC, held by Applied Technology Limited Partnership, Doraville, Georgia for an aggregate purchase price of \$80.0 million. Purification Cellutions LLC manufactures our structured honeycomb products within our Performance Materials segment.

2018 Senior Notes

On January 24, 2018, we issued \$300.0 million aggregate principal amount of 4.50 percent senior unsecured notes due 2026 (the "Notes"). The Notes were issued pursuant to an indenture dated as of January 24, 2018 (the "Indenture"), by and among Ingevity, the subsidiary guarantors party thereto and U.S. Bank National Association, as trustee. The Notes were offered and sold to qualified institutional buyers pursuant to Rule 144A and in transactions to certain non-U.S. persons outside the U.S. pursuant to Regulation S under the Securities Act of 1933, as amended (the "Securities Act"). The Notes have not been registered under the Securities Act or any state securities laws and may not be offered or sold in the U.S. absent registration or an applicable exemption from the registration requirements of the Securities Act and applicable state laws.

The net proceeds from the sale of the Notes, after deducting deferred financing fees and expenses of \$5.7 million, were approximately \$294.3 million. We used the net proceeds from the sale of the Notes to finance, in part, our purchase of substantially all the assets primarily used in the pine chemical business of Georgia-Pacific Chemicals LLC and Georgia-Pacific LLC.

Interest payments on the Notes are due semiannually in arrears on February 1st and August 1st of each year, beginning on August 1, 2018, at a rate of 4.50 percent per year. The Notes will mature on February 1, 2026. The Indenture contains certain customary covenants (including covenants limiting Ingevity and our restricted subsidiaries' ability to grant or permit liens on certain property securing debt, declare or pay dividends, make distributions on or repurchase or redeem capital stock, make investments in unrestricted subsidiaries, engage in sale and lease-back transactions, and engage in a consolidation or merger, or sell, transfer or otherwise dispose of all or substantially all of the assets of our and our restricted subsidiaries, taken as a whole) and events of default (subject in certain cases to customary exceptions, as well as grace and cure periods). The occurrence of an event of default under the Indenture could result in the acceleration of the Notes and could cause a cross-default that could result in the acceleration of other indebtedness of Ingevity and our subsidiaries.

Georgia Pacific's Pine Chemical Business Acquisition

On August 22, 2017, we entered into an Asset Purchase Agreement (the "Purchase Agreement") with Georgia-Pacific Chemicals LLC, Georgia-Pacific LLC (together with Georgia-Pacific Chemicals LLC, "GP") and Ingevity Arkansas, LLC, a wholly-owned subsidiary of Ingevity, to purchase substantially all the assets primarily used in GP's pine chemical business (the "Pine Chemical Business"), including assets and facilities related to tall oil fractionation operations and the production or modification of tall oil fatty acids, tall oil rosins, rosin derivatives and formulated products (the "Acquisition").

On March 8, 2018 (the "Acquisition Date"), pursuant to the terms and conditions set forth in the Purchase Agreement, we completed the Acquisition. During the three months ended September 30, 2018, we finalized the purchase price which included a final adjustment for working capital resulting in an aggregate purchase price of \$315.5 million. The Acquisition was primarily funded with the net proceeds from the Notes. In addition, on the Acquisition Date, the Company and GP entered into a 20-year, market-based crude tall oil ("CTO") supply contract with certain of Georgia-Pacific's paper mill operations.

We believe the Acquisition will provide a stronger platform from which we will accelerate the profitable growth of our Performance Chemicals segment. With the addition of broader technologies and product platforms, we will add scale and competitiveness to this segment, and create value for our shareholders.

Results of Operations

In millions	Three Months Ended		Nine Months Ended	
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
Net sales	\$311.2	\$264.1	\$855.0	\$742.9
Cost of sales	192.6	170.9	535.8	489.2
Gross profit	118.6	93.2	319.2	253.7
Selling, general and administrative expenses	34.5	26.2	96.5	78.5
Research and technical expenses	5.6	4.8	16.3	14.6
Separation costs	—	0.2	—	0.7
Restructuring and other (income) charges, net	—	0.1	(0.6)	3.5
Acquisition-related costs	—	4.1	4.3	4.1
Other (income) expense, net	2.5	(0.5)	2.7	0.9
Interest expense, net	7.9	3.2	21.8	9.3
Income (loss) before income taxes	68.1	55.1	178.2	142.1
Provision (benefit) for income taxes	16.4	16.7	38.5	44.9
Net income (loss)	51.7	38.4	139.7	97.2
Less: Net income (loss) attributable to noncontrolling interest	2.2	4.6	12.7	12.3
Net income (loss) attributable to Ingevity stockholders	\$49.5	\$33.8	\$127.0	\$84.9
Net sales and Gross profit				

The table below shows the 2018 net sales and percentage variances from 2017:

In millions, except percentages	Net sales	Percentage change vs. prior year			
		Total change	Currency effect	Price/Mix	Volume
Three months ended September 30, 2018	\$311.2	18%	—%	2%	16%
Nine months ended September 30, 2018	\$855.0	15%	1%	1%	13%
Three Months Ended September 30, 2018 vs. 2017					

Net sales increase of \$47.1 million in 2018 was primarily driven by favorable volume gains of \$42.9 million (sixteen percent of sales) and favorable pricing and product mix of \$5.4 million (two percent of sales). Both of our operating segments contributed to the volume and pricing and product mix impacts during the quarter. Additionally, unfavorable foreign currency exchange impacted Net sales by \$1.2 million (zero percent of sales).

Gross profit improvement of \$25.4 million was driven by favorable sales volume contributing \$19.1 million of additional gross profit, pricing and product mix of \$5.4 million, and reduced manufacturing costs of \$1.3 million. Unfavorable foreign currency exchange negatively impacted gross profit by \$0.4 million. Refer to the Segment Operating Results section included within this MD&A for more information on the drivers to the changes in gross profit period over period for each segment.

Nine Months Ended September 30, 2018 vs. 2017

Net sales increase of \$112.1 million in 2018 was primarily driven by favorable volume gains of \$96.5 million (thirteen percent of sales) and favorable pricing and product mix of \$9.5 million (one percent of sales). Both of our operating segments contributed to the volume and pricing and product mix impacts during the period. Additionally, favorable foreign currency exchange impacted Net sales by \$6.1 million (one percent of sales).

Gross profit improvement of \$65.5 million was driven primarily by favorable sales volume contributing \$45.0 million of additional gross profit, pricing and product mix of \$11.5 million, reduced manufacturing costs of \$7.5 million, and favorable foreign currency exchange impact of \$2.9 million, partially offset by inventory step up amortization related to the Acquisition of \$1.4 million. Refer to the Segment Operating Results section included within this MD&A for more information on the drivers to the changes in gross profit period over period for each segment.

Selling, general and administrative expenses

Three Months Ended September 30, 2018 vs. 2017

Selling, general and administrative ("SG&A") increased \$8.3 million in 2018 compared to 2017. SG&A expenses as a percentage of Net sales increased to 11.1 percent for the three months ended September 30, 2018 from 9.9 percent in 2017. The increase in SG&A is primarily due to \$3.2 million of amortization associated with intangible assets acquired as a result of the Acquisition in 2018. The remaining increase is related to increased spending associated with growth and legal costs.

Nine Months Ended September 30, 2018 vs. 2017

SG&A increased \$18.0 million in 2018 compared to 2017. SG&A expenses as a percentage of Net sales increased to 11.3 percent for the nine months ended September 30, 2018 from 10.6 percent in 2017. The increase in SG&A is primarily due to \$7.4 million of amortization associated with intangible assets acquired as a result of the Acquisition in 2018. The remaining increase is related to increased spending associated with growth and legal costs.

Research and technical expenses

Three Months Ended September 30, 2018 vs. 2017

Research and technical expenses as a percentage of Net sales remained flat period over period at 1.8 percent for the three months ended September 30, 2018 and 2017, respectively.

Nine Months Ended September 30, 2018 vs. 2017

Research and technical expenses as a percentage of Net sales remained relatively consistent period over period at 1.9 percent for the nine months ended September 30, 2018 compared to 2.0 percent for the nine months ended September 30, 2017.

Separation costs

Three and Nine Months Ended September 30, 2018 vs. 2017

Separation costs in 2017 represent legal, information technology, and other advisory fees to transition from a division of WestRock to a stand-alone public company. We incurred no separation costs in 2018.

Restructuring and other (income) charges, net

Three and Nine Months Ended September 30, 2018 vs. 2017

	Three Months Ended September 30, 2018	Nine Months Ended September 30, 2017	2018	2017
In millions				
Gain on sale of assets and businesses	\$ —	\$ —	\$(0.6)	\$ —
Severance and other employee-related costs ⁽¹⁾	—	—	—	1.3
Other (income) charges, net ⁽²⁾	—	0.1	—	2.2
Total restructuring and other (income) charges, net	\$ —	\$ 0.1	\$(0.6)	\$ 3.5

(1) Represents severance and employee benefit charges. Income represents adjustments to previously recorded severance and employee benefits.

(2) Primarily represents costs associated with rental payments, contract terminations, and other miscellaneous exit costs. Other Income primarily represents favorable developments on previously recorded exit costs as recoveries associated with restructuring activities.

2018 activities

In February 2018, we sold assets from the Performance Chemicals derivatives operations in Duque De Caxias, Rio de Janeiro, Brazil. These assets were part of a facility that was closed as a result of a restructuring event in 2016. As a result of this sale, we recorded zero and \$0.6 million as a gain on sale of assets in the three and nine months ended September 30, 2018, respectively.

2017 activities

In January 2017, we initiated a reorganization to streamline our leadership team, flatten the organization and reduce costs. As a result of this reorganization, we recorded zero and \$1.3 million, respectively, in severance and other employee-related costs in the three and nine months ended September 30, 2017.

During the three and nine months ended September 30, 2017, we also recorded \$0.1 million and \$2.2 million, respectively, of additional miscellaneous exit costs primarily associated with the exit of our Performance Chemicals' manufacturing operations in Palmeira, Santa Catarina, Brazil which began in the fourth quarter of 2016.

Acquisition-related costs

Three Months Ended September 30, 2018 vs. 2017

Acquisition-related costs of zero and \$4.1 million for the three months ended September 30, 2018 and 2017, respectively, were incurred in connection with the Acquisition. See Note 4 within the Condensed Consolidated Financial Statements for more information.

Nine Months Ended September 30, 2018 vs. 2017

Acquisition-related costs of \$4.3 million and \$4.1 million for the nine months ended September 30, 2018 and 2017, respectively, were incurred in connection with the Acquisition. See Note 4 within the Condensed Consolidated Financial Statements for more information.

Other (income) expense, net

Three and Nine Months Ended September 30, 2018 vs. 2017

	Three Months Ended September 30, 2018		Nine Months Ended September 30, 2017	
	2018	2017	2018	2017
In millions				
Foreign currency exchange (income) loss	\$1.2	\$(0.2)	\$2.2	\$1.4
Royalty and sundry (income) loss	(0.2)	(0.2)	(0.7)	(0.6)
Impairment of equity investment ⁽¹⁾	1.5	—	1.5	—
Other (income) expense, net	—	(0.1)	(0.3)	0.1
Total Other (income) expense, net	\$2.5	\$(0.5)	\$2.7	\$0.9

(1) Represents an impairment charge recorded during the three months ended September 30, 2018 related to an equity investment within our Performance Materials segment.

Interest expense, net

Three and Nine Months Ended September 30, 2018 vs. 2017

	Three Months Ended September 30, 2018		Nine Months Ended September 30, 2017	
	2018	2017	2018	2017
In millions				
Interest expense on capital lease obligations	\$1.5	\$1.5	4.6	4.6
Interest expense on revolving credit and term loan facilities ⁽¹⁾	3.8	2.7	10.5	8.3
Interest expense on senior notes ⁽¹⁾	3.6	—	9.8	—
Interest income associated with our Restricted investment	(0.5)	(0.4)	(1.5)	(1.5)
Capitalized interest	(0.3)	(1.0)	(0.7)	(2.8)
Other interest expense, net	(0.2)	0.4	(0.9)	0.7
Total Interest expense, net	\$7.9	\$3.2	\$21.8	\$9.3

(1) See Note 10 within the Condensed Consolidated Financial Statements for more information.

Provision (benefit) for income taxes

Three Months Ended September 30, 2018 vs. 2017

Our effective tax rate was 24.1 percent and 30.3 percent for the three months ended September 30, 2018 and 2017, respectively. Excluding discrete items, the effective rate was 24.4 percent compared to 30.8 percent for the three months ended September 30, 2018 and 2017, respectively. The change year over year is primarily due to the effect of U.S. Tax Reform, which was enacted in December 2017. See Note 14 to the Condensed Consolidated Financial Statements for more information on the drivers to the change in the effective tax rate.

Nine Months Ended September 30, 2018 vs. 2017

Our effective tax rate was 21.6 percent and 31.6 percent for the nine months ended September 30, 2018 and 2017, respectively. Excluding discrete items, the effective rate was 21.9 percent compared to 30.9 percent for the nine months ended September 30, 2018 and 2017, respectively. The change year over year is primarily due to the effect of U.S. Tax Reform, which was enacted in December 2017. See Note 14 to the Condensed Consolidated Financial Statements for more information on the drivers to the change in the effective tax rate.

Net income (loss) attributable to noncontrolling interest

Three and Nine Months Ended September 30, 2018 vs. 2017

Net income (loss) attributable to noncontrolling interest was \$2.2 million and \$4.6 million for the three months ended September 30, 2018 and 2017, respectively. For the nine months ended September 30, 2018 and 2017, Net income (loss) attributable to noncontrolling interest was \$12.7 million and \$12.3 million, respectively. Our noncontrolling interest represents the 30 percent ownership interest held by a third-party U.S.-based company in our consolidated Purification Cellutions LLC legal entity. Purification Cellutions LLC manufactures our structured honeycomb products within our Performance Materials segment. Refer to the Performance Materials' operating profit discussion below within the Segment Operating Results section for further discussion of the segment's performance. On August 1, 2018 we purchased the remaining 30 percent interest in Purification Cellutions LLC, see Note 11 to the Condensed Consolidated Financial Statements for more information.

Net income (loss) attributable to Ingevity stockholders

Three Months Ended September 30, 2018 vs. 2017

Net income (loss) attributable to Ingevity stockholders increased \$15.7 million in the three months ended September 30, 2018 vs. 2017, primarily driven by higher gross profit recognized in both of our segments and reduction of \$4.1 million of Acquisition-related costs, offset by increased interest expense of \$4.7 million due to the Notes. Refer to the Segment Operating Results section included within this MD&A for a discussion of changes in segment performance.

Nine Months Ended September 30, 2018 vs. 2017

Net income (loss) attributable to Ingevity stockholders increased \$42.1 million in the nine months ended September 30, 2018 vs. 2017, primarily driven by higher gross profit recognized in both of our segments and the \$4.1 million reduction of Restructuring and other (income) charges, net, offset by increased interest expense of \$12.5 million due to the Notes. Refer to the Segment Operating Results section included within this MD&A for a discussion of changes in segment performance.

Segment Operating Results

In addition to the information discussed above, the following sections discuss the results of operations for each of Ingevity's segments. Our segments are (i) Performance Materials and (ii) Performance Chemicals.

In general, the accounting policies of the segments are the same as those described in the Summary of Significant Accounting Policies in the Annual Consolidated Financial Statements included in our 2017 Annual Report.

Performance Materials

In millions	Three Months Ended		Nine Months Ended	
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
Automotive Technologies product line	\$86.6	\$75.6	\$258.6	\$230.1
Process Purifications product line	9.7	9.8	29.3	28.2
Total Performance Materials - Net sales	\$96.3	\$85.4	\$287.9	\$258.3
Segment operating profit	\$36.3	\$29.3	\$109.8	\$89.5

Comparison of Three and Nine Months Ended September 30, 2018 vs. 2017

Performance Materials (In millions, except percentages)	Percentage change vs. prior year				
	Net sales	Total change	Currency effect	Price/Mix	Volume
Three months ended September 30, 2018	\$96.3	13 %	(1)%	1 %	13 %
Nine months ended September 30, 2018	\$287.9	11 %	1 %	— %	10 %

Three Months Ended September 30, 2018 vs. 2017

Segment net sales for the Performance Materials segment were \$96.3 million and \$85.4 million for the three months ended September 30, 2018 and 2017, respectively. The sales increase in 2018 was primarily driven by \$10.6 million (thirteen percent of sales) in volume improvements in automotive evaporative emission canister products related to stricter environmental regulation in the North American automotive market. These gains were further bolstered by favorable product mix of \$0.7 million (one percent of sales), partially offset by unfavorable foreign currency exchange \$0.4 million (one percent of sales).

Segment operating profit for the Performance Materials segment was \$36.3 million and \$29.3 million for the three months ended September 30, 2018 and 2017, respectively. Segment operating profit increased \$7.0 million primarily due to favorable volume in the automotive carbon application, which contributed \$6.9 million, favorable product mix, which contributed \$0.7 million, and improvements in manufacturing costs which favorably impacted operating profit by \$5.5 million. SG&A and research and technical costs increased by \$3.4 million primarily due to legal and increased spending associated with growth. Unfavorable foreign currency exchange impacts also impacted operating profit \$1.2 million. Additionally, operating profit was negatively impacted by an impairment of an equity investment of \$1.5 million.

Nine Months Ended September 30, 2018 vs. 2017

Segment net sales for the Performance Materials segment were \$287.9 million and \$258.3 million for the nine months ended September 30, 2018 and 2017, respectively. The sales increase in 2018 was primarily driven by \$27.0 million (ten percent of sales) in volume improvements in automotive evaporative emission canister products related to increased vehicle content due to regulatory adoption and the shift towards higher content vehicles in the North American automotive market and \$1.7 million (one percent of sales) of favorable foreign currency exchange. These gains were further bolstered by favorable price and product mix of \$0.9 million (zero percent of sales).

Segment operating profit for the Performance Materials segment was \$109.8 million and \$89.5 million for the nine months ended September 30, 2018 and 2017, respectively. Segment operating profit increased \$20.3 million primarily due to favorable volume in the automotive carbon application, which contributed \$17.0 million, favorable product mix, which contributed \$3.2 million, and improvements in manufacturing costs which favorably impacted operating profit by \$6.2 million. This increase was partially offset by increased SG&A and research and technical costs due primarily to increased legal costs and increased spending associated with growth impacting profit by \$4.1 million and unfavorable foreign currency exchange of \$0.5 million. Additionally, operating profit was negatively impacted by an impairment of an equity investment of \$1.5 million.

Performance Chemicals

	Three Months		Nine Months	
	Ended		Ended	
	September 30,		September 30,	
In millions	2018	2017	2018	2017
Oilfield Technologies product line	\$32.5	\$20.3	\$84.0	\$58.1
Pavement Technologies product line	68.1	64.5	152.2	137.2
Industrial Specialties product line	114.3	93.9	330.9	289.3
Total Performance Chemicals - Net sales	\$214.9	\$178.7	\$567.1	\$484.6
Segment operating profit	\$39.7	\$33.4	\$95.3	\$70.2

Comparison of Three and Nine Months Ended September 30, 2018 vs. 2017

Performance Chemicals (In millions, except percentages)	Percentage change vs. prior year				
	Net sales	Total change	Currency effect	Price/Mix	Volume
Three months ended September 30, 2018	\$214.9	20 %	— %	2 %	18 %
Nine months ended September 30, 2018	\$567.1	17 %	1 %	2 %	14 %

Pine Chemical Business Acquisition

The Pine Chemical Business is being integrated into our Performance Chemicals segment and has been included within our results of operations since the Acquisition Date. Although not yet complete, a substantial portion of the Pine Chemicals Business has been integrated into our existing Performance Chemicals operations. As a result, our ability to separate net sales and operating performance of the Acquisition from our existing Performance Chemicals operating results is no longer practical. The information presented below for the three and nine months ended September 30, 2018 includes the results of this acquisition as compared to the historical results of the three and nine months ended September 30, 2017. For a pro forma comparative analysis of 2018 versus 2017 results, refer to the section below titled "Performance Chemical Pro Forma Financial Results with the Pine Chemical Business."

Three Months Ended September 30, 2018 vs. 2017

Segment net sales for the Performance Chemicals segment were \$214.9 million and \$178.7 million for the three months ended September 30, 2018 and 2017, respectively. The sales increase was driven by favorable volume of \$32.3 million (eighteen percent of sales), which consisted of favorable industrial specialties volume (\$18.4 million), pavement technologies products (\$2.4 million), and oilfield technologies (\$11.5 million). Also driving the sales increase was pricing and product mix of \$4.7 million (two percent of sales) driven by oilfield technologies (\$0.8 million) pavement technologies (\$1.2 million), and industrial specialties (\$2.7 million). Additionally, unfavorable foreign currency exchange impacted Net sales by \$0.8 million (zero percent of sales).

Segment operating profit for the Performance Chemicals segment was \$39.7 million and \$33.4 million for the three months ended September 30, 2018 and 2017, respectively. Segment operating profit increased by \$6.3 million primarily due to increased volumes of \$12.2 million and \$4.7 million of favorable pricing and product mix. These favorable operating results were partially offset by \$4.2 million of unfavorable manufacturing productivity, primarily driven by higher freight costs and \$6.0 million of unfavorable SG&A costs, driven by the Acquisition, primarily the amortization expense related to the acquired intangibles. Additionally, unfavorable foreign currency exchange impacted Segment operating profit by \$0.4 million.

Nine Months Ended September 30, 2018 vs. 2017

Segment net sales for the Performance Chemicals segment were \$567.1 million and \$484.6 million for the nine months ended September 30, 2018 and 2017, respectively. The sales increase was driven by favorable volume of \$69.5 million (fourteen

percent of sales), which consisted of favorable pavement technologies products volume (\$11.8 million), oilfield technologies (\$21.0 million), and industrial specialties (\$36.7 million). Also driving the sales increase was pricing and product mix of \$8.6 million (two percent of sales) driven by industrial specialties (\$1.6 million), pavement technologies (\$2.4 million), and oilfield technologies (\$4.6 million). In addition, \$4.4 million of favorable foreign currency exchange (one percent of sales) helped drive the sales increase.

Segment operating profit for the Performance Chemicals segment was \$95.3 million and \$70.2 million for the nine months ended September 30, 2018 and 2017, respectively. Segment operating profit increased by \$25.1 million primarily due to increased volumes of \$28.0 million, \$8.3 million of favorable pricing and product mix, \$1.3 million of favorable manufacturing productivity primarily driven by lower raw material pricing, specifically CTO, \$2.9 million due to favorable foreign currency exchange. These favorable operating results were partially offset by \$15.4 million of unfavorable SG&A costs, driven by the Acquisition, primarily the amortization expense related to the acquired intangibles.

Performance Chemical Pro Forma Financial Results with the Pine Chemical Business

We believe that reviewing our operating results by combining actual and pro forma results for our Performance Chemicals segment is useful in identifying trends in, or reaching conclusions regarding, the overall operating performance. Our pro forma segment information includes adjustments as if the Acquisition had occurred on January 1, 2017. Our pro forma results are adjusted for the effects of acquisition accounting but do not include adjustments for costs related to integration activities, cost savings or synergies that might be achieved by the combined businesses. Pro forma amounts to be presented are not necessarily indicative of what our results would have been had we operated the Pine Chemical Business since January 1, 2017, nor will the pro forma amounts necessarily be indicative of our future results.

Performance Chemical Pro Forma Financial Results

In millions	Three Months		Nine Months	
	Ended		Ended	
	September 30,		September 30,	
	2018	2017	2018	2017
Net sales				
Performance Chemicals, as reported ⁽¹⁾	\$214.9	\$178.7	\$567.1	\$484.6
Pine Chemical Business, pro forma ⁽²⁾	—	24.0	20.2	71.6
Pro Forma Combined Net Sales ⁽³⁾	\$214.9	\$202.7	\$587.3	\$556.2
Segment Operating Profit				
Performance Chemicals, as reported ⁽¹⁾	\$39.7	\$33.4	\$95.3	\$70.2
Pine Chemical Business, pro forma ⁽²⁾	—	3.1	0.8	5.7
Pro Forma Combined Segment Operating Profit ⁽³⁾	\$39.7	\$36.5	\$96.1	\$75.9

(1) As reported amounts are the results of operations of Performance Chemicals, including the results of the Pine Chemical Business, post Acquisition Date.

(2) Pro forma amounts include historical results of the Pine Chemical Business, prior to the Acquisition Date. These amounts also include adjustments as if the Acquisition had occurred on January 1, 2017, including the effects of purchase accounting. The pro forma amounts do not include adjustments for expenses related to integration activities, cost savings, or synergies that have been or may have been realized had we acquired the Pine Chemical Business on January 1, 2017.

(3) The pro forma combined results are not necessarily indicative of what the results would have been had we acquired the Pine Chemical Business on January 1, 2017 nor indicative of future results.

Performance Chemical Pro Forma Combined Net Sales

In millions	Three Months Ended		Nine Months Ended		
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017	
Oilfield Technologies product line	\$32.5	\$26.4	\$88.6	\$75.0	
Pavement Technologies product line	68.1	64.9	204.6	137.8	
Industrial Specialties product line	114.3	111.4	294.1	343.4	
Pro Forma Combined Net Sales - Performance Chemicals	\$214.9	\$202.7	\$587.3	\$556.2	
Comparison of Three and Nine Months Ended September 30, 2018 vs. 2017					
Percentage change vs. prior year					
Pro					
Performance Chemicals (In millions, except percentages)	Forma	Total	Currency	Price/Mix	Volume
	Combined	change	effect		
sales					
Three months ended September 30, 2018	\$214.9	6 %	— %	2 %	4 %
Nine months ended September 30, 2018	\$587.3	6 %	1 %	1 %	4 %

Pro Forma Combined Results - Three Months Ended September 30, 2018 vs. 2017

Pro Forma Combined Net Sales for the Performance Chemicals segment were \$214.9 million and \$202.7 million for the three months ended September 30, 2018 and 2017, respectively. The Pro Forma Combined Net Sales increase was driven by favorable volume of \$9.2 million (four percent of sales), which consisted of favorable volumes in oilfield technologies (\$5.9 million), pavement technologies products (\$2.3 million), and industrial specialties (\$1.0 million). Also driving the sales increase was pricing and product mix of \$3.7 million (two percent of sales) driven by favorable price and product mix in industrial specialties (\$2.5 million), pavement technologies products (\$1.0 million), and oilfield technologies (\$0.2 million). Unfavorable foreign currency exchange of \$0.7 million (zero percent of sales) slightly offset the sales increase from volume, price and product mix.

Pro Forma Combined Segment Operating Profit for the Performance Chemicals segment was \$39.7 million and \$36.5 million for the three months ended September 30, 2018 and 2017, respectively. Pro Forma Combined Segment Operating Profit increased by \$3.2 million primarily due to increased volumes of \$4.4 million and \$4.7 million of favorable pricing and product mix. These favorable operating results were partially offset by \$4.5 million of unfavorable manufacturing productivity primarily driven by increased freight and warehousing costs, \$0.4 million due to unfavorable foreign currency exchange, and \$1.0 million of unfavorable SG&A costs, mainly driven by growth-related spending.

Pro Forma Combined Results - Nine Months Ended September 30, 2018 vs. 2017

Pro Forma Combined Net Sales for the Performance Chemicals segment were \$587.3 million and \$556.2 million for the nine months ended September 30, 2018 and 2017, respectively. The Pro Forma Combined Net Sales increase was driven by favorable volume of \$20.6 million (four percent of sales), which consisted of favorable volumes in pavement technologies products (\$12.3 million), oilfield technologies (\$9.4 million), offset by unfavorable volumes in industrial specialties (\$1.1 million). Also driving the sales increase was pricing and product mix of \$6.1 million (one percent of sales) driven by favorable price and product mix in oilfield technologies (\$3.9 million), pavement technologies products (\$1.5 million), and industrial specialties (\$0.7 million). In addition, \$4.4 million of favorable foreign currency exchange (one percent of sales) helped drive the sales increase.

Pro Forma Combined Segment Operating Profit for the Performance Chemicals segment was \$96.1 million and \$75.9 million for the nine months ended September 30, 2018 and 2017, respectively. Pro Forma Combined Segment Operating Profit increased by \$20.2 million primarily due to increased volumes of \$10.0 million, \$6.8 million of favorable pricing and product mix, \$4.4 million of favorable manufacturing productivity primarily driven by lower raw material pricing, specifically CTO, and

\$2.9 million due to favorable foreign currency exchange. These favorable operating results were partially offset by \$3.9 million of unfavorable SG&A costs, driven by higher incentive compensation costs and growth-related spending.

Use of Non-GAAP Financial Measures

Ingevity has presented certain financial measures, defined below, which have not been prepared in accordance with U.S. generally accepted accounting principles ("GAAP") and has provided a reconciliation to the most directly comparable financial measure calculated in accordance with GAAP. These financial measures are not meant to be considered in isolation or as a substitute for the most directly comparable financial measure calculated in accordance with GAAP. The below financial measures are utilized by management as measures of profitability.

We believe these non-GAAP financial measures provide management as well as investors, potential investors, securities analysts and others with useful information to evaluate the performance of the business, because such measures, when viewed together with our financial results computed in accordance with GAAP, provide a more complete understanding of the factors and trends affecting our historical financial performance and projected future results. We believe Adjusted EBITDA and Segment EBITDA are useful measures because they exclude the effects of investment activities as well as non-operating activities.

Adjusted EBITDA is defined as net income (loss) plus provision (benefit) for income taxes, interest expense, net, depreciation and amortization, separation costs, acquisition and other related costs and restructuring and other (income) charges, net. Segment EBITDA is defined as segment operating profit plus depreciation and amortization. These non-GAAP measures are not intended to replace the presentation of financial results in accordance with GAAP and investors should consider the limitations associated with these non-GAAP measures, including the potential lack of comparability of these measures from one company to another. Reconciliations of Adjusted EBITDA and Segment EBITDA to net income and segment operating profit, respectively, are set forth within this section.

Reconciliation of Net Income (Loss) to Adjusted EBITDA

	Three Months Ended September 30,		Nine Months Ended September 30,	
In millions	2018	2017	2018	2017
Net income (loss) (GAAP)	\$51.7	\$38.4	\$139.7	\$97.2
Provision (benefit) for income taxes	16.4	16.7	38.5	44.9
Interest expense, net	7.9	3.2	21.8	9.3
Depreciation and amortization	14.7	10.0	42.1	30.4
Separation costs	—	0.2	—	0.7
Restructuring and other (income) charges, net	—	0.1	(0.6)	3.5
Acquisition and other related costs ⁽¹⁾	—	4.1	5.7	4.1
Adjusted EBITDA (Non-GAAP)	\$90.7	\$72.7	\$247.2	\$190.1

Charges primarily relate to legal and professional fees and inventory step-up amortization incurred associated with the Acquisition. For the three and nine months ended September 30, 2018, the legal and professional fees of zero (1) and \$4.3 million, respectively, and the inventory step-up amortization of zero and \$1.4 million, respectively, are included in "Acquisition-related costs" and "Cost of sales" on the condensed consolidated statement of operations, respectively.

Adjusted EBITDA

Three and Nine Months Ended September 30, 2018 vs. 2017

The factors that impacted adjusted EBITDA period to period are the same factors that affected earnings discussed in the Results of Operations and Segment Operating Results sections included within this MD&A.

Performance Materials

Reconciliation of Segment Operating Profit to Segment

EBITDA

Performance Materials	Three		Nine Months	
	Months	Ended	Months	Ended
	September	September	September	September
	30,	30,	30,	30,
In millions	2018	2017	2018	2017
Segment operating profit (GAAP)	\$36.3	\$29.3	\$109.8	\$89.5
Depreciation and amortization	5.3	4.9	16.7	14.9
Segment EBITDA (Non-GAAP)	\$41.6	\$34.2	\$126.5	\$104.4

Three and Nine Months Ended September 30, 2018 vs. 2017

The factors that impacted segment EBITDA period to period are the same factors that affected segment operating profit discussed in the Segment Operating Results section included within this MD&A, excluding the depreciation and amortization expense.

Performance Chemicals

Reconciliation of Segment Operating Profit to Segment

EBITDA

Performance Chemicals	Three		Nine Months	
	Months	Ended	Months	Ended
	September	September	September	September
	30,	30,	30,	30,
In millions	2018	2017	2018	2017
Segment operating profit (GAAP)	\$39.7	\$33.4	\$95.3	\$70.2
Depreciation and amortization	9.4	5.1	25.4	15.5
Segment EBITDA (Non-GAAP)	\$49.1	\$38.5	\$120.7	\$85.7

Three and Nine Months Ended September 30, 2018 vs. 2017

The factors that impacted Segment EBITDA period to period are the same factors that affected segment operating profit discussed in the Segment Operating Results section included within this MD&A, excluding the depreciation and amortization expense.

Reconciliation of Pro Forma Combined Segment Operating Profit to

Pro forma Combined Segment EBITDA

Performance Chemicals	Three		Nine Months	
	Months	Ended	Months	Ended
	September	September	September	September
	30,	30,	30,	30,
In millions	2018	2017	2018	2017
Pro Forma Combined Segment Operating Profit	\$39.7	\$36.5	\$96.1	\$75.9
Pro Forma Combined Depreciation and amortization	9.4	9.5	28.5	28.9
Pro Forma Combined Segment EBITDA	\$49.1	\$46.0	\$124.6	\$104.8

Three and Nine Months Ended September 30, 2018 vs. 2017

The factors that impacted Pro Forma Combined Segment EBITDA period to period are the same factors that affected Pro Forma Combined Segment Operating Profit discussed in the Performance Chemical Pro Forma Financial Results with the Pine Chemical Business section included within this MD&A, excluding the depreciation and amortization

expense.

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Total Company Outlook and Fiscal Year 2018 Guidance

For revenue, the Acquisition coupled with organic volume growth in Performance Materials and Performance Chemicals oilfield and pavement technologies applications are expected to be partially offset by negative volume in Performance Chemicals industrial specialties applications as we continue to derivatize higher quantities of tall oil fatty acid ("TOFA") into oilfield and pavement products. We expect to deliver fiscal year 2018 Net sales of \$1.10 billion to \$1.13 billion.

2018 Adjusted EBITDA is expected to grow by 26% to 29%. This is driven by the Acquisition as well as mix improvement due to volume growth in our higher margin Performance Materials and Performance Chemicals pavement technologies and oilfield technologies applications and favorable year over year CTO costs, partially offset by reduced volume in industrial specialties and higher production related costs including freight. Some risks to the 2018 outlook include reductions in U.S. vehicle sales and production in automotive applications, higher non-CTO raw materials costs with higher oil prices, a shift towards smaller vehicles in the U.S. (versus the 2016 and 2017 shift towards light-trucks), lower automotive product sales in China driven by a reduction in tax incentives versus 2017, lower oil prices and a reduction in oil drilling and production in oilfield technologies, and our ability to fully integrate the Acquisition's tall oil refinery into our network and capture planned synergies in 2018. We expect to deliver fiscal year 2018 Adjusted EBITDA of \$306 million to \$314 million.

A reconciliation of Net income (loss) to Adjusted EBITDA as projected for 2018 is not provided because we do not forecast Net income as we cannot, without unreasonable effort, estimate or predict with certainty various components of Net income. These components, net of tax, include separation costs associated with the separation from WestRock, additional acquisition and other related costs associated with the Acquisition; further restructuring and other income (charges), net; and revisions due to future guidance and assessment of U.S. Tax Reform. Additionally, discrete tax items could drive variability in our projected effective tax rate. All of these components could significantly impact such financial measures. Further, in the future other items with similar characteristics to those currently included in Adjusted EBITDA, that have a similar impact on comparability of periods, and which are not known at this time, may exist and impact Net income (loss) attributable to Ingevity stockholders and Adjusted EBITDA.

Liquidity and Capital Resources

The primary source of liquidity for Ingevity's business is the cash flow provided by operations. We expect our cash flow provided by operations combined with cash on hand and available capacity under our revolving credit facility to be sufficient to meet our working capital needs. Over the next twelve months, we expect to make interest payments, capital expenditures, principal repayments, treasury share repurchases, income tax payments and additional acquisition-related costs. We believe these sources will be sufficient to fund our planned operations and meet our interest and other contractual obligations for at least the next twelve months. As of September 30, 2018, our available capacity under our revolving credit facility was \$748.2 million.

Cash and cash equivalents totaled \$57.5 million at September 30, 2018. Management continuously monitors deposit concentrations and the credit quality of the financial institutions that hold Ingevity's cash and cash equivalents, as well as the credit quality of its insurance providers, customers and key suppliers.

Due to the global nature of our operations, a portion of our cash is held outside the United States. The cash and cash equivalents balance at September 30, 2018 included \$16.8 million held by our foreign subsidiaries. Cash and earnings of our foreign subsidiaries are generally used to finance our foreign operations and capital expenditures. We have calculated our best estimate of the impact of U.S. Tax Reform in our income tax provision in accordance with our understanding of the changes to the Internal Revenue Code and guidance available as of the date of this filing. No additional expense was recorded in relation to the one-time transition tax on the mandatory deemed repatriation of foreign earnings.

We believe that our foreign holdings of cash will not have a material adverse impact on our U.S. liquidity.

Management does not currently expect to repatriate cash earnings from our foreign operations in order to fund U.S. operations. If these earnings were distributed, such amounts would be subject to U.S. federal income tax at the statutory rate less the available foreign tax credits, if any, and potentially subject to withholding taxes in the various

jurisdictions. The potential tax implications of the repatriation of unremitted earnings are driven by facts at the time of distribution, therefore, it is not practicable to estimate the income tax liabilities that might be incurred if such cash and earnings were repatriated to the U.S.

Other Potential Liquidity Needs

Share Repurchases

On February 20, 2017, our Board of Directors authorized the repurchase of up to \$100 million of our common stock. The repurchase program does not include a specific timetable or price targets and may be suspended or terminated at any time. Shares may be purchased through open market or privately negotiated transactions at the discretion of management based on its evaluation of prevailing market conditions and other factors. At September 30, 2018, \$75.3 million remained unused under our Board-authorized repurchase program.

Capital Expenditures

Projected 2018 capital expenditures are expected to be \$90 million to \$95 million.

Cash flow comparison of Nine Months Ended September 30, 2018 and 2017

In millions	Nine Months Ended September 30,	
	2018	2017
Net cash provided (used) by operating activities	\$ 166.4	\$ 133.6
Net cash provided (used) by investing activities	(376.3)	(42.0)
Net cash provided (used) by financing activities	179.9	(49.9)

Cash flows provided (used) by operating activities

During the first nine months of 2018, cash flow provided by operations increased primarily due to higher net income, partially offset by working capital increases compared to 2017. Working capital increases in the first nine months of 2018, when compared to the first nine months of 2017, are primarily driven by increases in accounts receivable and inventories. Below provides a description of the changes to working capital during the first nine months of 2018 (i.e. current assets and current liabilities).

Current Assets and Liabilities

In millions	September 30, December 31,	
	2018	2017
Cash and cash equivalents	\$ 57.5	\$ 87.9
Accounts receivable, net	140.4	100.0
Inventories, net	194.3	160.0
Prepaid and other current assets	28.6	20.8
Total current assets	\$ 420.8	\$ 368.7

Current assets as of September 30, 2018 increased \$52.1 million compared to December 31, 2017 primarily due to increases in accounts receivable and inventories. Accounts receivable, net as of September 30, 2018 increased \$40.4 million consistent with the higher sales in the quarter ended September 30, 2018 compared to the quarter ended December 31, 2017. While Cash and cash equivalents decreased \$30.4 million, both Inventories, net and Prepaid and other current assets increased by \$34.3 million and \$7.8 million, respectively. The build in inventories is due to three items: first, the build-up of inventory in advance of the latter part of the paving season in our Performance Chemicals segment; second, the inclusion of the Acquisition's product inventory; and finally, the intentional build of activated carbon inventory in preparation for the adoption in China of that country's new gasoline vapor emission standards applicable to our Performance Materials segment.

In millions	September 30, December 31,	
	2018	2017
Accounts payable	\$ 108.7	\$ 83.1
Accrued expenses	26.2	20.0
Accrued payroll and employee benefits	32.5	39.2
Current maturities of long-term debt	4.9	9.4
Income taxes payable	7.5	1.5
Total current liabilities	\$ 179.8	\$ 153.2

Current liabilities as of September 30, 2018 increased by \$26.6 million compared to December 31, 2017 primarily driven by an increase in Accounts payable, Accrued expenses, and Income taxes payable, offset by decreases in Accrued payroll and employee benefits and Current maturities of long-term debt.

Cash flows provided (used) by investing activities

Cash used by investing activities in the nine months ended September 30, 2018 was \$376.3 million and was primarily driven by the \$315.5 million purchase of the Pine Chemical Business (see Note 4 in the Condensed Consolidated Financial Statements for more information). The remaining cash used by investing activities was primarily driven by capital expenditures. In the nine months ended September 30, 2018 and 2017, capital spending included the base maintenance capital supporting ongoing operations and growth spending primarily related to the construction of a Performance Materials activated carbon manufacturing facility in China, as well as expansion at our Performance Chemicals Deridder, Louisiana facility and our Performance Materials Waynesboro, Georgia and Covington, Virginia facilities.

Capital expenditure categories	Nine Months Ended September 30,	
	2018	2017
Maintenance	\$31.9	\$23.0
Safety, health and environment	4.6	3.9
Growth and cost improvement	19.4	9.3
Total capital expenditures	\$55.9	\$36.2

Cash flows provided (used) by financing activities

Cash provided by financing activities in the nine months ended September 30, 2018 was \$179.9 million and was driven by net proceeds from the issuance of the Notes of \$294.3 million (refer to Note 10 in the Condensed Consolidated Financial Statements for more information), offset by the acquisition of Noncontrolling interest of \$80.0 million, Noncontrolling interest distributions of \$15.3 million, and the repurchase of common stock of \$18.1 million. Cash used by financing activities in the nine months ended September 30, 2017 was \$49.9 million and was primarily driven by net borrowings under our credit facility of \$111.9 million and noncontrolling interest distributions of \$8.2 million.

Contractual Obligations

Information related to our contractual commitments at December 31, 2017 can be found in a table included within Part II, Item 7 of our 2017 Annual Report. During the nine months ended September 30, 2018, the Company completed the purchase of the Pine Chemical Business for \$315.5 million, subject to certain adjustments, in March 2018 (refer to Note 4 of the Condensed Consolidated Financial Statements for more information), and we issued \$300.0 million aggregate principal amount of 4.50 percent senior unsecured notes due 2026 (refer to Note 10 of the Condensed Financial Statements for more information). On August 7, 2018, the Company entered into the "Amendment to the Credit Agreement, which increased the revolving commitments by \$200.0 million, reduced the the Applicable Rate, and extended the maturity date for the loans and commitments under the Existing Credit Agreement to August 7, 2023 (refer to Note 10 of the Condensed Financial Statements for more information). There have been no other material changes to our contractual commitments during the nine months ended September 30, 2018.

New Accounting Guidance

Refer to the Note 3 to the Condensed Consolidated Financial Statements for a full description of recent accounting pronouncements including the respective expected dates of adoption and expected effects on our Condensed Consolidated Financial Statements.

Critical Accounting Policies

Our Condensed Consolidated Financial Statements are prepared in conformity with GAAP. The preparation of our financial statements requires management to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses. We have described our accounting policies in Note 3 to our Annual Consolidated Financial Statements included in our 2017 Annual Report. We have reviewed these accounting policies, identifying those that we believe to be critical to the preparation and understanding of our financial statements. Critical accounting policies are central to our presentation of results of operations and financial condition and require management to make estimates and judgments on certain matters. We base our estimates and judgments on historical experience, current conditions and other reasonable factors.

The following is a list of those accounting policies that we have deemed most critical to the presentation and understanding of our results of operations and financial condition. See the "Critical Accounting Policies" section included within the "Management's Discussion and Analysis of Financial Condition and Results of Operations of Ingevity" section in our 2017 Annual Report for a detailed description of these policies and their potential effects on our results of operations and financial condition:

- Revenue recognition
- Accounts receivable and allowance for doubtful accounts
- Concentration of credit risk
- Impairment of long-lived assets
- Income taxes

In May 2014, the FASB issued ASU 2014-09 "Revenue from Contracts with Customers (Topic 606)," which supersedes both the revenue recognition requirement to ASC 605 "Revenue Recognition" and most industry-specific guidance. The core principle of the new standard (ASC 606) is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. An entity must also disclose sufficient information to enable users of financial statements to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers, including qualitative and quantitative information about contracts with customers, significant judgments and changes in judgments, and assets recognized from the costs to obtain or fulfill a contract. In 2016 and 2017, the FASB issued several ASUs that provided additional clarity on numerous topics as well as providing technical corrections to the original ASU 2014-09. We adopted this new standard on January 1, 2018, utilizing the modified retrospective method applied to those contracts which were not completed as of January 1, 2018. Results for reporting periods beginning after January 1, 2018 are presented under ASC 606, while prior period amounts are not adjusted and continue to be reported in accordance with our historic accounting under ASC 605. See Note 3 to the Condensed

Consolidated Financial Statements for more information on the adoption of ASC 606 and its impact on our Condensed Consolidated Financial Statements.

The majority of our sales revenue remains unchanged by ASC 606 and continues to be recognized when products are shipped from our manufacturing and warehousing facilities, which represents the point at which control is transferred to the customer. For certain limited contracts, where we are producing goods with no alternative use and for which we have an enforceable right to payment for performance completed to date, we are recognizing revenue as goods are manufactured, rather than when they are shipped as previously done under ASC 605. See Note 5 to our Condensed Consolidated Financial Statements for more information on the adoption of ASC 606.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Foreign currency exchange rate risk

We have foreign-based operations, primarily in Europe, South America and Asia, which accounted for approximately 9 percent of our net sales in the first nine months of 2018. Ingevity's significant operations outside the U.S. have designated the local currency as their functional currency. The primary currencies for which we have exchange rate exposure are the U.S. dollar versus the euro, the Japanese yen and the Chinese renminbi. In addition, certain of our domestic operations have sales to foreign customers. In the conduct of our foreign operations, we also make inter-company sales. All of this exposes us to the effect of changes in foreign currency exchange rates. Our earnings are therefore subject to change due to fluctuations in foreign currency exchange rates when the earnings in foreign currencies are translated into U.S. dollars. During 2017, we began hedging this foreign currency exchange rate risk. Foreign exchange forward contracts are used to hedge firm and highly anticipated foreign currency cash flows. The U.S. dollar versus the euro is our most significant foreign currency exposure. A hypothetical 10 percent change in the average euro to U.S. dollar exchange rate during the nine months ended September 30, 2018, would have changed our net sales and income before income taxes by approximately \$4.0 million or 0.5 percent and \$1.6 million or 0.9 percent, respectively.

Concentration of credit risk

The financial instruments that potentially subject us to concentrations of credit risk are accounts receivable. We limit our credit risk by performing ongoing credit evaluations and, when necessary, requiring letters of credit, guarantees or collateral. We had accounts receivable relating to our largest customer of \$11 million and \$16 million as of September 30, 2018 and December 31, 2017, respectively.

Commodity price risk

A portion of our manufacturing costs include purchased raw materials, which are commodities whose prices fluctuate as market supply and demand fundamentals change. Accordingly, product margins and the level of our profitability tend to fluctuate with the changes in these commodity prices. The cost of energy is a manufacturing cost that is exposed to commodity pricing. Our energy costs are diversified among electricity, steam and natural gas, with natural gas comprising our largest energy input.

Crude oil price risk

Our results of operations are directly affected by the costs of our raw materials, particularly CTO. CTO purchases were approximately 12 percent of our cost of sales and 38 percent of our raw materials purchases for the first nine months of 2018. Pricing for CTO is subject to particular pressures due to the limited supply elasticity of the product and competing demands for its use, both of which drive pressure on price. Our gross profit and margins could be adversely affected by changes in the cost of CTO if we are unable to pass the increases on to our customers. CTO is a thinly traded commodity with pricing commonly established for periods ranging from one quarter to one year periods of time. We try to protect against such pricing fluctuations through various business strategies. Based on average pricing during the nine months ended September 30, 2018, a hypothetical unfavorable 10 percent change in the market price for CTO would have resulted in additional costs of sales of approximately \$6.3 million or one percent, which we may or may not have been able to pass on to our customers.

Natural gas price risk

Natural gas is our largest form of energy purchases, constituting approximately two percent of our cost of goods sold for the nine months ended September 30, 2018. Increases in natural gas costs, unless passed on to our customers, would adversely affect our results of operations. If natural gas prices increase significantly, our business or results of operations may be adversely affected. For the nine months ended September 30, 2018, a hypothetical unfavorable 10 percent change in natural gas pricing would have resulted in an additional cost of sales of approximately \$1.2 million. To mitigate expected fluctuations in market prices and the volatility to earnings and cash flow resulting from changes to pricing of natural gas purchases, from time to time, we will enter into swap contracts and zero cost collar option contracts and designate these contracts as cash flow hedges. We began our commodity price risk hedging program in December 2017 and therefore prior to this date we had no derivative financial instruments designated to hedge commodity price risk. As of September 30, 2018, we had 1.3 million and 1.6 million mmbTUS (millions of British Thermal Units) in aggregate notional volume of outstanding natural gas commodity swap contracts and zero cost collar option contracts, respectively, designated as cash flow hedges. As of September 30, 2018, open commodity contracts hedge forecasted transactions until December 31, 2019. The fair value of the outstanding designated natural gas commodity hedge contracts as of September 30, 2018 was \$0.1 million.

Interest Rate Risk

Our Revolving Credit Facility and Term Loan Facility, include a variable interest rate component. As a result, we are subject to interest rate risk with respect to such floating-rate debt. A 100 basis point increase in the variable interest rate component of our borrowings as of September 30, 2018 would increase our annual interest expense by approximately \$3.8 million or 11 percent.

ITEM 4. CONTROLS AND PROCEDURES

a) Evaluation of Disclosure Controls and Procedures

Ingevity maintains a system of disclosure controls and procedures designed to give reasonable assurance that information required to be disclosed in Ingevity's reports filed or submitted under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the rules and forms of the SEC. These controls and procedures also give reasonable assurance that information required to be disclosed in such reports is accumulated and communicated to management to allow timely decisions regarding required disclosures.

As of September 30, 2018, Ingevity's Chief Executive Officer ("CEO") and Chief Financial Officer ("CFO"), together with management, conducted an evaluation of the effectiveness of Ingevity's disclosure controls and procedures as defined in Rules 13a-15(e) and 15d-15(e) of the Exchange Act. Based on that evaluation, the CEO and CFO concluded that these disclosure controls and procedures are effective at the reasonable assurance level described above. As further discussed in Note 4 to the Condensed Consolidated Financial Statements included within this Form 10-Q, we completed the Acquisition on March 8, 2018. We have begun the process of analyzing the Pine Chemical Business' systems of disclosure controls and procedures and internal controls over financial reporting and integrating them within our framework of controls. Accordingly, pursuant to SEC guidance that an assessment of a recently acquired business may be omitted from the scope of an assessment for up to one year following the date of acquisition, the scope of our assessment of the effectiveness of our disclosure controls and procedures does not include any disclosure controls and procedures of the Pine Chemical Business.

b) Changes in Internal Control over Financial Reporting

There has been no change in Ingevity's internal control over financial reporting (as defined in Rule 13a-15(f) and 15d-15(f) of the Exchange Act) that occurred during the quarter ended September 30, 2018 that has materially affected, or is reasonably likely to materially affect, Ingevity's internal control over financial reporting. The Company is currently evaluating the Pine Chemical Business' processes, information technology systems, and other components of internal controls over financial reporting as a part of the Company's integration activities which may result in periodic control changes. Such changes will be disclosed as required by applicable SEC guidance.

PART II. OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS

We are, from time to time, involved in routine litigation incidental to our operations. None of the litigation in which we are currently involved, individually or in the aggregate, is material to our consolidated financial condition, liquidity or results of operations nor are we aware of any material pending or contemplated proceedings.

ITEM 1A. RISK FACTORS

There have been no material changes in Ingevity's risk factors discussed in Item 1A of the 2017 Annual Report.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

Issuer Purchases of Equity Securities

On February 20, 2017, the Board of Directors authorized the repurchase of up to \$100 million of our common stock. The repurchase program does not include a specific timetable or price targets and may be suspended or terminated at any time. Share repurchases may be made from time to time in either open market or private transactions. The repurchase program does not require us to acquire any specific number of shares, and the program may be suspended or discontinued at any time. The timing, volume and nature of share repurchases will be at the discretion of management, depending on market conditions, alternative options for the use of cash, applicable securities laws and other factors.

Below is a summary of shares repurchased under the publicly announced repurchase program during the period.

ISSUER PURCHASES OF SECURITIES

Period	Total Number of Shares Purchased	Average Price Paid Per Share	Publicly Announced Program		
			Cumulative Number of Shares Purchased	Total Dollar Amount Purchased	Maximum Dollar Value of Shares that May Yet be Purchased
July 1-31, 2018	30,900	\$ 87.14	30,900	\$2,692,554	\$81,638,154
August 1-31, 2018	34,500	99.53	34,500	3,433,613	78,204,541
September 1-30, 2018	28,500	101.36	28,500	2,888,798	75,315,743
Total	93,900	\$ 96.01	93,900	\$9,014,965	\$75,315,743

On November 1, 2018, our Board of Directors authorized the repurchase of up to \$350 million of our common stock, in addition to the remaining authorization from February 20, 2017. The repurchase program does not include a specific timetable or price targets and may be suspended or terminated at any time. Share repurchases may be made from time to time in either open market or private transactions. The repurchase program does not require us to acquire any specific number of shares, and the program may be suspended or discontinued at any time. The timing, volume and nature of share repurchases will be at the discretion of management, depending on market conditions, alternative options for the use of cash, applicable securities laws and other factors.

ITEM 3. DEFAULTS UPON SENIOR SECURITIES

Not applicable.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

ITEM 5. OTHER INFORMATION

None.

ITEM 6. EXHIBITS

Exhibit No.	Description of Exhibit
<u>3.1*</u>	Amended and Restated Certificate of Incorporation of Ingevity Corporation (incorporated by reference to Exhibit 3.1 to Form 8-K (File No. 001-37586) filed May 16, 2016).
<u>3.2*</u>	Amended and Restated Bylaws of Ingevity Corporation (incorporated by reference to Exhibit 3.2 to Form 8-K (File No. 001-37856) filed May 16, 2016).
<u>10.1*</u>	Incremental Facility Agreement and Amendment No. 2, by and among Ingevity Corporation, Ingevity Holdings SPRL, the other loan parties party thereto, the lenders party thereto and Wells Fargo Bank, N.A., as administrative agent, dated as of August 7, 2018 (incorporated by reference to Exhibit 10.1 to Form 8-K (File No. 001-37586) filed August 9, 2018).
<u>31.1</u>	Rule 13a-14(a)/15d-14(a) Certification of the Company's Principal Executive Officer.
<u>31.2</u>	Rule 13a-14(a)/15d-14(a) Certification of the Company's Principal Financial Officer.
<u>32.1</u>	Section 1350 Certification of the Company's Principal Executive Officer. The information contained in this Exhibit shall not be deemed filed with the Securities and Exchange Commission nor incorporated by reference in any registration statement filed by the registrant under the Securities Act of 1933, as amended.
<u>32.2</u>	Section 1350 Certification of the Company's Principal Financial Officer. The information contained in this Exhibit shall not be deemed filed with the Securities and Exchange Commission nor incorporated by reference in any registration statement filed by the registrant under the Securities Act of 1933, as amended.
101	Interactive Data File

*Incorporated by reference

+ Indicates a management contract or compensatory plan or arrangement.

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.

INGEVITY CORPORATION
(Registrant)

By: /S/ JOHN C. FORTSON
John C. Fortson
Executive Vice President, Chief Financial Officer & Treasurer
(Principal Financial Officer and Duly Authorized Officer)
Date: November 1, 2018