

# **PEMBINA PIPELINE CORPORATION**

# **ANNUAL INFORMATION FORM**

For the Year Ended December 31, 2015

February 25, 2016

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#### **GLOSSARY OF TERMS**

Terms used in this Annual Information Form and not otherwise defined have the meanings set forth below:

"**2013** Base Shelf Prospectus" means the final short form base shelf prospectus filed with the securities commissions or similar regulatory authorities in each of the provinces of Canada on February 22, 2013 allowing Pembina to offer and issue, from time to time: (i) Common Shares; (ii) preferred shares; (iii) any bonds, debentures, notes or other evidences of indebtedness of any kind, nature or description of Pembina; (iv) warrants; and (v) subscription receipts of Pembina of up to \$3,000,000,000 aggregate initial offering price (or the equivalent thereof in one or more foreign currencies or composite currencies, including United States dollars) during the 25 month period that the 2013 Base Shelf Prospectus was valid;

"**2015** Base Shelf Prospectus" means the final short form base shelf prospectus filed with the securities commissions or similar regulatory authorities in each of the provinces of Canada on March 18, 2015 allowing Pembina to offer and issue, from time to time: (i) Common Shares; (ii) preferred shares; (iii) any bonds, debentures, notes or other evidences of indebtedness of any kind, nature or description of Pembina ("Debt Securities"); (iv) warrants to purchase Common Shares and warrants to purchase Debt Securities; and (v) subscription receipts of Pembina (together with the foregoing, collectively, the "Securities") of up to \$5,000,000,000 aggregate initial offering price of Securities (or the equivalent thereof in one or more foreign currencies or composite currencies, including United States dollars) during the 25 month period that the 2015 Base Shelf Prospectus is valid, which Securities may be offered separately or together, in amounts, at prices and on terms to be determined based on market conditions at the time of the sale and set forth in one or more shelf prospectus supplements;

"**ABCA**" means the *Business Corporations Act* (Alberta), R.S.A. 2000, c. B-9, as amended from time to time, including the regulations promulgated thereunder;

"AER" means the Alberta Energy Regulator;

"Altares Lateral" has the meaning ascribed thereto under "General Developments Of Pembina – Developments in 2016";

"B.C. Pipelines" means, collectively, the NEBC Pipeline and the Western Pipeline;

"BCOGC" means the British Columbia Oil and Gas Commission;

"BCUC" means the British Columbia Utilities Commission;

"Board" or "Board of Directors" means the board of directors of Pembina from time to time;

"Brazeau/Caroline Pipeline" means the pipeline system and related facilities delivering NGL from natural gas processing plants southwest of Edmonton, Alberta and from Caroline, Alberta to the Bonnie Glen Pipeline or to Fort Saskatchewan, Alberta;

"Canadian Diluent Hub" or "CDH" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2014";

"Cheecham Lateral" means the lateral pipeline and related facilities delivering SCO from a pump station on the Syncrude Pipeline to a terminalling facility located near Cheecham, Alberta;

"Class A Preferred Shares" means class A preferred shares of Pembina, issuable in series, and where the context requires includes the Series 1 Class A Preferred Shares, the Series 2 Class A Preferred Shares, the Series 3 Class A Preferred Shares, the Series 4 Class A Preferred Shares, the Series 5 Class A Preferred Shares, the Series 6 Class A Preferred Shares, the Series 7 Class A Preferred Shares, the Series 8 Class A Preferred Shares, the Series 9 Class A

Preferred Shares, the Series 10 Class A Preferred Shares, the Series 11 Class A Preferred Shares and the Series 12 Class A Preferred Shares;

"Class B Preferred Shares" means class B preferred shares of Pembina;

"Common Shares" means the common shares in the capital of Pembina;

"**Company**" or "**Pembina**" means Pembina Pipeline Corporation, an ABCA corporation and, unless the context otherwise requires, includes its subsidiaries;

"condensate" means a mixture consisting primarily of pentanes and heavier hydrocarbon liquids;

"**Convertible Debentures**" means, collectively, the Series C Convertible Debentures, the Series E Convertible Debentures and the Series F Convertible Debentures;

"**Cornerstone Pipeline**" has the meaning ascribed thereto under "*General Developments of Pembina – Developments in 2013*";

"Credit Facilities" has the meaning ascribed thereto under "Description of the Capital Structure of Pembina – Credit Facilities";

"Cutbank Complex" means PGS Limited Partnership's interest in the interconnected sweet gas processing facilities comprising the Cutbank Gas Plant, Musreau I, the Musreau Deep Cut facility, Musreau II, the Kakwa Gas Plant and Musreau III (which is currently under construction), as well as the associated pipelines and compressors and the agreements related thereto;

"Cutbank Gas Plant" means the facility owned 100 percent by PGS Limited Partnership located at 07-16-062-08 W6M;

"deep cut" means ethane-plus extraction gas processing capabilities;

"**DRIP**" means Pembina's Premium Dividend<sup>TM(1)</sup> and Dividend Reinvestment Plan and all associated agreements, which were amended and restated effective January 6, 2016;

"Duvernay I" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2015";

"Empress East" has the meaning ascribed thereto under the heading "Midstream Business – Overview";

"ESA" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2013";

"Form 40-F" means Pembina's annual report on Form 40-F for the fiscal year ended December 31, 2015 filed with the SEC;

"Fund" has the meaning ascribed thereto under "Corporate Structure – Name, Address and Formation";

"Heartland Hub" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2013";

"Horizon Expansion" has the meaning ascribed thereto under "*General Developments of Pembina – Developments in 2015*";

<sup>&</sup>lt;sup>1</sup> ™ denotes Trademark of Canaccord Genuity Corp.

"Horizon Pipeline" means the pipeline system and related facilities designed to deliver SCO from the Horizon Project into the Edmonton, Alberta area. See "*Description of Pembina's Business and Operations – Oil Sands & Heavy Oil Business*";

"Horizon Project" means the Horizon Oil Sands Project located approximately 70 kilometres north of Fort McMurray, Alberta;

"HVP" means high vapour pressure;

"Kakwa Gas Plant" means the facility jointly owned by PGS Limited Partnership and a third-party, each as to an undivided 50 percent interest, located at 01-35-060-05 W6M;

"LVP" means low vapour pressure;

"**MD&A**" means Pembina's management's discussion and analysis for the year ended December 31, 2015, an electronic copy of which is available on Pembina's profile on the SEDAR website at www.sedar.com, and in Pembina's annual report on Form 40-F filed on the EDGAR website at www.sec.gov, or at www.pembina.com;

"Medium Term Note Indenture" means the indenture dated March 29, 2011 between Pembina, Pouce Coupé Pipe Line Ltd., Plateau Pipe Line Ltd., Alberta Oil Sands Pipeline Ltd., Pembina Pipeline (an Alberta partnership), Pembina North Limited Partnership, Pembina West Limited Partnership, Pembina Oil Sands Pipeline L.P., Pembina Marketing Ltd., Pembina Midstream Limited Partnership, Pembina Gas Services Ltd., Pembina Gas Services Limited Partnership and Computershare Trust Company of Canada, as supplemented by the first supplemental note indenture dated April 2, 2012 between Pembina, Pembina NGL Corporation, 1598313 Alberta Ltd., Provident Infrastructure and Logistics LP, Provident Midstream Holdings GP ULC, Provident Midstream Inc., Provident GP Inc., Provident Facilities (NGL) Ltd., Provident Facilities (NGL) L.P., 1195714 Alberta Ltd., 1444767 Alberta Ltd., Provident Energy Pipeline Inc., Empress NGL Partnership, Kinetic Resources (LPG), Pro Holding Company, Provident Midstream (USA) Inc., Pro US LLC, Pro Midstream Company, Kinetic Resources (U.S.A.), Pro GP Corp., Pro LP Corp., Terraquest, Inc. and Computershare Trust Company of Canada, and as further supplemented by the second supplemental note indenture dated October 24, 2014 among Pembina, Pembina Prairie Facilities Ltd., Pembina Prairie Facilities Holdco Ltd. and Computershare Trust Company of Canada, providing for the issuance of the Medium Term Notes;

"Medium Term Notes" means, collectively, the Medium Term Notes, Series 1, the Medium Term Notes, Series 2, the Medium Term Notes, Series 3, the Medium Term Notes, Series 4, the Medium Term Notes, Series 5 and the Medium Term Notes, Series 6;

"Medium Term Notes, Series 1" means the \$250 million aggregate principal amount of medium term notes of Pembina issued March 29, 2011 that mature on March 29, 2021 and which bear interest at a fixed rate of 4.89 percent per annum. See "Description of the Capital Structure of Pembina – Medium Term Notes";

"Medium Term Notes, Series 2" means the \$450 million aggregate principal amount of medium term notes of Pembina issued October 22, 2012 that mature on October 24, 2022 and which bear interest at a fixed rate of 3.77 percent per annum. See "*Description of the Capital Structure of Pembina – Medium Term Notes*";

"Medium Term Notes, Series 3" means the \$200 million, \$150 million and \$100 million aggregate principal amount of medium term notes of Pembina issued April 30, 2013, February 2, 2015 and June 16, 2015 respectively, that mature on April 30, 2043 and which bear interest at a fixed rate of 4.75 percent per annum. See "*Description of the Capital Structure of Pembina – Medium Term Notes*";

"**Medium Term Notes, Series 4**" means the \$600 million aggregate principal amount of medium term notes of Pembina issued April 4, 2014 that mature on March 25, 2044 and which bear interest at a fixed rate of 4.81 percent per annum. See "*Description of the Capital Structure of Pembina – Medium Term Notes*";

"Medium Term Notes, Series 5" means the \$450 million aggregate principal amount of medium term notes of Pembina issued February 2, 2015 that mature on February 3, 2025 and which bear interest at a fixed rate of 3.54 percent per annum. See "Description of the Capital Structure of Pembina – Medium Term Notes";

"Medium Term Notes, Series 6" means the \$500 million aggregate principal amount of medium term notes of Pembina issued June 16, 2015 that mature on June 15, 2027 and which bear interest at a fixed rate of 4.24 percent per annum. See "*Description of the Capital Structure of Pembina – Medium Term Notes*";

"Mitsue Pipeline" means the pipeline system and related facilities delivering condensate from Whitecourt, Alberta to Utikuma, Alberta for use as diluent for heavy oil;

"**Musreau I**" means the Musreau A, Musreau C and Musreau D trains, owned 100 percent by PGS Limited Partnership, and the Musreau B train, jointly owned by PGS Limited Partnership and a third party, each as to an undivided 50 percent interest, located at 04-25-062-06 W6M;

"Musreau II" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2013";

"Musreau III" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2014";

"**Musreau Deep Cut**" means the 205 MMcf/d NGL extraction facility and related 10 km NGL sales pipeline connected to the Peace Pipeline and located at the Musreau I facility;

"NEB" means the National Energy Board;

"**NEBC Expansion**" has the meaning ascribed thereto under "*General Developments of Pembina – Developments in 2014*";

"**NEBC Pipeline**" means the pipeline system and related facilities delivering crude oil and condensate from northeastern British Columbia and northwestern Alberta to Taylor, British Columbia;

"NGL" means natural gas liquids, including ethane, propane, butane and condensate;

"Nipisi Pipeline" means the pipeline system and related facilities delivering blended heavy oil from Utikuma, Alberta to Edmonton, Alberta;

"Northern Pipeline" means the pipeline system and related facilities delivering NGL from Taylor, British Columbia to Fort Saskatchewan, Alberta;

"Northwest Pipeline" means the pipeline system and related facilities delivering crude oil from northeastern British Columbia to Boundary Lake, Alberta;

"NYSE" means the New York Stock Exchange;

"**Option Plan**" means the stock option plan of Pembina approved by the Shareholders on May 26, 2011, as amended effective February 26, 2015;

"**Peace Pipeline**" means the pipeline system and related facilities delivering light crude oil, condensate, propane mix (C<sub>3</sub>+) and ethane mix (C<sub>2</sub>+) from northeastern British Columbia and northwestern Alberta to Edmonton, Alberta and to Fort Saskatchewan, Alberta;

"**Pembina Nexus Terminal**" or "**PNT**" means Pembina's terminalling and storage facilities located in the Edmonton, Alberta area and forming an integral part of the terminal connecting key infrastructure in the Edmonton-Fort Saskatchewan-Namao, Alberta area; "Phase II HVP Expansion" means the increase of NGL capacity on the Peace/Northern NGL System by 53,000 bpd;

"Phase II LVP Expansion" means the increase of crude oil and condensate capacity on the Peace Pipeline by 55,000 bpd;

"Phase III Expansion" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2013";

"**PGS Limited Partnership**" means Pembina Gas Services Limited Partnership, a limited partnership formed under the laws of the Province of Alberta, that is a wholly–owned subsidiary of Pembina;

"**PNT**" has the meaning ascribed thereto under "*Description of Pembina's Business and Operations – Midstream Business*";

"**Pouce Coupé Pipeline**" means the pipeline system and related facilities delivering sweet crude oil and high vapour pressure hydrocarbon products from Dawson Creek, British Columbia to Pouce Coupé, Alberta;

"**Premium Dividend™**" has the meaning ascribed thereto under "*Description of Capital Structure - Premium Dividend*<sup>™</sup> and Dividend Reinvestment Plan";

"**Redemption**" has the meaning ascribed thereto under "*General Developments of Pembina – Developments in 2015*";

"Redemption Date" has the meaning ascribed thereto under "Description of the Capital Structure of Pembina - Convertible Debentures";

"Redwater Plant" means Pembina's 73 mbpd NGL fractionator and 7.3 mmbbls of finished product cavern storage at Redwater, Alberta;

"Redwater West" has the meaning ascribed thereto under the heading "Midstream Business – Overview";

"**Resthaven**" means Pembina's combined shallow cut and deep cut NGL extraction facility with 200 MMcf/d (134 MMcf/d net to Pembina) of extraction capacity;

"**Resthaven Expansion**" has the meaning ascribed thereto under "*General Developments of Pembina* – *Developments in 2014*";

"RFS II" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2013";

"RFS III" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2013";

"**Saturn I**" means Pembina's deep cut NGL extraction facility located in the Berland area of Alberta with 200 MMcf/d of extraction capacity;

"Saturn II" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2013";

"Saturn Complex" means the Saturn I and Saturn II facilities;

"SCADA" means supervisory control and data acquisition. See "Other Information Relating to Pembina's Business – Information and Communication Systems";

"SCO" means synthetic crude oil;

"SEC" means the United States Securities and Exchange Commission;

"SEEP" means the Saskatchewan Ethane Extraction Plant, Pembina's deep cut gas processing facility that could reach 60 MMcf/d of capacity, located in southeast Saskatchewan;

"Senior Notes" means, collectively, the Series C Senior Notes and the Series D Senior Notes;

"Series 1 Class A Preferred Shares" means the cumulative redeemable rate reset Class A Preferred Shares, series 1 of Pembina, issued July 26, 2013. See "Description of the Capital Structure of Pembina – Class A Preferred Shares";

"Series 2 Class A Preferred Shares" means the cumulative redeemable floating rate Class A Preferred Shares, series 2 of Pembina, issuable on conversion of the Series 1 Class A Preferred Shares. See "Description of the Capital Structure of Pembina – Class A Preferred Shares";

"Series 3 Class A Preferred Shares" means the cumulative redeemable rate reset Class A Preferred Shares, series 3 of Pembina, issued October 2, 2013. See "Description of the Capital Structure of Pembina – Class A Preferred Shares";

"Series 4 Class A Preferred Shares" means the cumulative redeemable floating rate Class A Preferred Shares, series 4 of Pembina, issuable on conversion of the Series 3 Class A Preferred Shares. See "Description of the Capital Structure of Pembina – Class A Preferred Shares";

"Series 5 Class A Preferred Shares" means the cumulative redeemable rate reset Class A Preferred Shares, series 5 of Pembina, issued January 16, 2014. See "Description of the Capital Structure of Pembina – Class A Preferred Shares";

"Series 6 Class A Preferred Shares" means the cumulative redeemable floating rate Class A Preferred Shares, series 6 of Pembina, issuable on conversion of the Series 5 Class A Preferred Shares. See "Description of the Capital Structure of Pembina – Class A Preferred Shares";

"Series 7 Class A Preferred Shares" means the cumulative redeemable rate reset Class A Preferred Shares, series 7 of Pembina, issued September 11, 2014. See "Description of the Capital Structure of Pembina – Class A Preferred Shares";

"Series 8 Class A Preferred Shares" means the cumulative redeemable floating rate Class A Preferred Shares, series 8 of Pembina, issuable on conversion of the Series 7 Class A Preferred Shares. See "Description of the Capital Structure of Pembina – Class A Preferred Shares";

"Series 9 Class A Preferred Shares" means the cumulative redeemable rate reset Class A Preferred Shares, series 9 of Pembina, issued April 10, 2015. See "Description of the Capital Structure of Pembina – Class A Preferred Shares";

"Series 10 Class A Preferred Shares" means the cumulative redeemable floating rate Class A Preferred Shares, series 10 of Pembina, issuable on conversion of the Series 9 Class A Preferred Shares. See "Description of the Capital Structure of Pembina – Class A Preferred Shares";

"Series 11 Class A Preferred Shares" means the cumulative redeemable minimum rate reset Class A Preferred Shares, series 11 of Pembina, issued January 15, 2016. See "Description of the Capital Structure of Pembina – Class A Preferred Shares";

"Series 12 Class A Preferred Shares" means the cumulative redeemable floating rate Class A Preferred Shares, series 12 of Pembina, issuable on conversion of the Series 11 Class A Preferred Shares. See "*Description of the Capital Structure of Pembina – Class A Preferred Shares*";

"Series C Convertible Debentures" means the 5.75 percent convertible unsecured subordinated debentures of Pembina issued November 24, 2010 and redeemed by Pembina on October 13, 2015;

"Series C Senior Notes" means the \$200 million aggregate principal amount of unsecured senior notes of Pembina issued September 30, 2006 and due September 30, 2021 and which bear interest at a fixed rate of 5.58 percent per annum;

"Series D Senior Notes" means the \$267 million aggregate principal amount of unsecured senior notes of Pembina issued November 18, 2009 and due November 18, 2019 and which bear interest at a fixed rate of 5.91 percent per annum;

"Series E Convertible Debentures" means the 5.75 percent convertible unsecured subordinated debentures issued by Provident Energy Ltd. on November 1, 2010, assumed by Pembina in April 2012 and redeemed by Pembina on October 13, 2015;

"Series F Convertible Debentures" means the 5.75 percent convertible unsecured subordinated debentures maturing December 31, 2018 issued by Provident Energy Ltd. on April 29, 2011 and assumed by Pembina in April 2012;

"SGER" has the meaning ascribed thereto under "General Risk Factors - Regulation";

"shallow cut" means sweet gas processing with propane and/or condensate-plus extraction capabilities;

"Shareholders" means the holders of Common Shares;

"Syncrude Pipeline" means the pipeline system and related facilities delivering SCO from the Syncrude Project into the Edmonton, Alberta area;

"Syncrude Project" means the joint venture that was formed for the recovery of oil sands, crude bitumen or products derived from the Athabasca oil sands, located near Fort McMurray, Alberta;

"**take-or-pay**" has the meaning ascribed thereto under "*Conventional Pipelines* – *Contractual Arrangements* – *Firm Contracting*";

"Taylor to Boundary Lake Pipeline" means the pipeline and related facilities delivering sweet HVP hydrocarbon products from Taylor, British Columbia to Boundary Lake, Alberta;

"**Terminal Agreement**" has the meaning ascribed thereto under "*General Developments of Pembina – Developments in 2014*";

"throughput" means volume of product delivered through a pipeline;

"TSX" means the Toronto Stock Exchange;

"Vantage" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2014;

"Vantage Acquisition" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2014";

"Vantage Expansion" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2015";

"Vantage Pipeline" means the HVP pipeline that links a growing supply of ethane from the North Dakota Bakken play to the petrochemical market in Alberta, originating from a large-scale gas plant in Tioga, North Dakota extending approximately 700 kilometres northwest, through Saskatchewan and terminating near Empress, Alberta, where it is connected to the Alberta Ethane Gathering System pipeline; "West Coast Terminal" has the meaning ascribed thereto under "General Developments of Pembina – Developments in 2014";

"WCSB" means the Western Canadian Sedimentary Basin; and

"Western Pipeline" means the pipeline system and related facilities delivering crude oil from Taylor, British Columbia to Kamloops, British Columbia.

All dollar amounts set forth in this Annual Information Form are in Canadian dollars unless otherwise indicated. References to "\$" or "C\$" are to Canadian dollars and references to "US\$" are to United States dollars. On February 24, 2016, the exchange rate based on the noon rate as reported by the Bank of Canada, was C\$1.00 equals US\$0.7264.

Except where otherwise indicated, all information in this Annual Information Form is presented as at the end of Pembina's most recently completed financial year, being December 31, 2015.

A reference made in this Annual Information Form to other documents or to information or documents available on a website, does not constitute the incorporation by reference into this Annual Information Form of such other documents or such other information or documents available on such website unless otherwise stated.

## ABBREVIATIONS AND CONVERSIONS

In this Annual Information Form, the following abbreviations have the indicated meanings:

bbl and bbls	barrel and barrels, each barrel representing 34.972 Imperial gallons or 42 US gallons
mmbbls	millions of barrels
bpd	barrels per day
mbpd	thousands of barrels per day
mcf	thousands of cubic feet
MMcf/d	million cubic feet per day
boe	barrels of oil equivalent, using the conversion
	factor of 6 mcf of natural gas being
	equivalent to one bbl of oil
boe/d	barrels of oil equivalent per day
mboe/d	thousands of barrels of oil equivalent per day
bcf/d	billion cubic feet per day
km	Kilometres
CO <sub>2</sub> e	carbon dioxide equivalent

Boe's may be misleading, particularly if used in isolation. A boe conversion ratio of 6 mcf of natural gas: 1 bbl of oil is based on an energy equivalency conversion method primarily applicable at the burner tip and does not represent a value equivalency at the wellhead.

The following table sets forth certain standard conversions between Standard Imperial Units and the International System of Units (or metric units).

To convert from	<u>To</u>	Multiply by
bbls	cubic metres	0.59
cubic metres	bbls	6.293
miles	kilometres	1.609
kilometres	miles	0.621

#### NON-GAAP AND ADDITIONAL GAAP MEASURES

Pembina's audited consolidated financial information for the year ended December 31, 2015 which may be found on Pembina's profile on the SEDAR website at www.sedar.com, and in Pembina's annual report on Form 40-F filed on Pembina's profile on the EDGAR website at www.sec.gov, is presented in compliance with International Financial Reporting Standards ("IFRS"). Certain financial information included in such financial statements is contained within this Annual Information Form. Readers should also take note, however, that within this Annual Information Form the terms "net revenue" and "operating margin" are used to describe certain financial information of Pembina and these terms are not defined by Canadian generally accepted accounting principles ("GAAP").

"**Net revenue**" is a non-GAAP financial measure which is defined as total revenue less cost of goods sold including product purchases. Management believes that net revenue provides investors with a single measure to indicate the margin on sales before non-product operating expenses that is comparable between periods. Management utilizes net revenue to compare consecutive results, particularly in the Midstream business, to aggregate revenue generated by each of Pembina's businesses and to set comparable objectives.

"**Operating margin**" is an additional GAAP financial measure which is defined as gross profit before depreciation and amortization included in operations and unrealized gain/loss on commodity-related derivative financial instruments. Management believes that operating margin provides useful information to investors for assessing the financial

performance of the Company's operations. Management utilizes operating margin in setting objectives and views it as a key performance indicator of the Company's success.

The intent of non-GAAP and additional GAAP measures is to provide additional useful information to investors and analysts though the measures do not have any standardized meaning under IFRS. The measures should not, therefore, be considered in isolation or used in substitute for measures of performance prepared in accordance with IFRS. Other issuers may calculate these non-GAAP and additional GAAP measures differently.

Readers should be cautioned that net revenue and operating margin should not be construed as alternatives to revenue, gross profit, or other measures of financial results determined in accordance with GAAP as indicators of Pembina's performance.

For more information with respect to financial measures which have not been defined by GAAP, including reconciliations to the closest comparable GAAP measure, see the "*Non–GAAP and Additional GAAP Measures*" section of the MD&A, which is incorporated by reference herein.

# FORWARD-LOOKING STATEMENTS AND INFORMATION

Certain statements contained in this Annual Information Form constitute "forward-looking statements" within the meaning of the *United States Private Securities Litigation Reform Act of 1995* and "forward-looking information" within the meaning of applicable Canadian securities legislation (collectively, "**forward-looking statements**"). All forward-looking statements are based on Pembina's current expectations, estimates, projections, beliefs, judgments and assumptions based on information available at the time the statement was made and in light of its experience and its perception of historical trends. Forward-looking statements are typically identified by words such as "anticipate", "continue", "estimate", "expect", "may", "will", "project", "should", "could", "would", "believe", "plan", "intend", "design", "target", "undertake", "view", "indicate", "maintain", "explore", "entail", "schedule", "objective", "strategy", "likely", "potential", "envision", "aim", "outlook", "propose", "goal", "envisions", and similar expressions suggesting future events or future performance.

By their nature, such forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause actual results or events to differ materially from those anticipated in such forward-looking statements. Pembina believes the expectations reflected in those forward-looking statements are reasonable but no assurance can be given that these expectations will prove to be correct and such forward-looking statements included in this Annual Information Form should not be unduly relied upon. These statements speak only as of the date of the Annual Information Form.

In particular, this Annual Information Form contains forward-looking statements pertaining to, among other things, the following:

- the future levels of cash dividends that Pembina intends to pay to its shareholders, the dividend payment dates and the tax treatment thereof;
- planning, construction, capital expenditure estimates, schedules, regulatory and environmental applications and anticipated approvals, expected capacity, incremental volumes, in-service dates, rights, activities, benefits and operations with respect to new construction of, or expansions on existing, pipelines, gas services facilities, fractionation facilities, terminalling, storage and hub facilities and other facilities or energy infrastructure, as well as the impact of Pembina's new projects on its future financial performance;
- pipeline, processing, fractionation and storage facility and system operations and throughput levels;
- treatment under governmental regulatory regimes including taxes, environmental and greenhouse gas
  regulations and related abandonment and reclamation obligations, and Aboriginal, landowner and other
  stakeholder consultation requirements;

- Pembina's strategy for payment of future abandonment costs and decommissioning obligations;
- Pembina's strategy and the development and expected timing of new business initiatives, growth opportunities, and succession planning and the impact thereof;
- increased throughput potential due to increased oil and gas industry activity and new connections and other initiatives on Pembina's pipelines and at Pembina's facilities;
- expected future cash flows and the sufficiency thereof, financial strength, sources of and access to funds at attractive rates, future contractual obligations, future financing options, availability of capital to fund growth plans, operating obligations and dividends, and the use of proceeds from financings;
- tolls and tariffs, and processing, transportation, fractionation, storage and services commitments and contracts;
- operating risks (including the amount of future liabilities related to pipeline spills and other environmental incidents) and related insurance coverage and inspection and integrity programs;
- inventory and pricing in the North American liquids market;
- decommissioning and abandonment obligations;
- the impact of the current commodity price environment on Pembina; and
- competitive conditions and Pembina's ability to position itself competitively in the industry.

Various factors or assumptions are typically applied by Pembina in drawing conclusions or making the forecasts, projections, predictions or estimations set out in forward-looking statements based on information currently available to Pembina. These factors and assumptions include, but are not limited to:

- oil and gas industry exploration and development activity levels and the geographic region of such activity;
- the success of Pembina's operations;
- prevailing commodity prices, interest rates and exchange rates and the ability of Pembina to maintain current credit ratings;
- the availability of capital to fund future capital requirements relating to existing assets and projects;
- expectations regarding participation in Pembina's DRIP;
- future operating costs, including geotechnical and integrity costs;
- in respect of current developments, expansions, planned capital expenditures, completion dates and capacity expectations: that third parties will provide any necessary support; that any third-party projects relating to Pembina's growth projects will be sanctioned and completed as expected; that any required commercial agreements can be reached; that all required regulatory and environmental approvals can be obtained on the necessary terms in a timely manner; that counterparties will comply with contracts in a timely manner; that there are no unforeseen events preventing the performance of contracts or the completion of the relevant facilities; and that there are no unforeseen material costs relating to the facilities which are not recoverable from customers;

- in respect of the stability of Pembina's dividends: prevailing commodity prices, margins and exchange rates; that Pembina's future results of operations will be consistent with past performance and management expectations in relation thereto; the continued availability of capital at attractive prices to fund future capital requirements relating to existing assets and projects, including but not limited to future capital expenditures relating to expansion, upgrades and maintenance shutdowns; the success of growth projects; future operating costs; that counterparties to material agreements will continue to perform their obligations in a timely manner; that there are no unforeseen events preventing the performance of contracts; and that there are no unforeseen material construction or other costs related to current growth projects or current operations;
- interest and tax rates;
- prevailing regulatory, tax and environmental laws and regulations; and
- the amount of future liabilities relating to environmental incidents and the availability of coverage under Pembina's insurance policies (including in respect of Pembina's business interruption insurance policy).

The actual results of Pembina could differ materially from those anticipated in these forward-looking statements as a result of the material risk factors set forth below:

- the regulatory environment and decisions, and Aboriginal and landowner consultation requirements;
- the impact of competitive entities and pricing;
- labour and material shortages;
- reliance on key relationships and agreements and the outcome of stakeholder engagement;
- the strength and operations of the oil and natural gas production industry and related commodity prices;
- non-performance or default by counterparties to agreements which Pembina or one or more of its subsidiaries has entered into in respect of its business;
- actions by governmental or regulatory authorities including changes in tax laws and treatment, changes in royalty rates or increased environmental regulation;
- fluctuations in operating results;
- adverse general economic and market conditions in Canada, North America and worldwide, including changes, or prolonged weaknesses, as applicable, in interest rates, foreign currency exchange rates, commodity prices, supply/demand trends and overall industry activity levels;
- ability to access various sources of debt and equity capital;
- changes in credit ratings;
- constraints on, or the unavailability of adequate infrastructure;
- technology and security risks;
- changes in the political environment and public opinion; and

• other risk factors as set out in this Annual Information Form under "*Risk Factors*".

These factors should not be construed as exhaustive. Unless required by law, Pembina does not undertake any obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. Any forward-looking statements contained herein are expressly qualified by this cautionary statement.

## CORPORATE STRUCTURE

## Name, Address and Formation

Pembina Pipeline Corporation is a corporation amalgamated under the ABCA. It is the successor to Pembina Pipeline Income Fund (the "**Fund**") following the completion of the reorganization of the Fund from an income trust structure to a corporate structure by way of plan of arrangement involving the Fund, Pembina and the holders of the Fund's trust units pursuant to which the trust was reorganized into Pembina on October 1, 2010. Pembina's principal and registered office is located at Suite 4000, 585 - 8th Avenue S.W., Calgary, Alberta, T2P 1G1.

## Pembina's Subsidiaries

The following chart indicates Pembina's major subsidiaries, including their jurisdictions of formation and the percentage of common equity or other ownership interest owned, or controlled or directed, directly or indirectly, by Pembina or its subsidiaries.

Principal Subsidiaries <sup>(1)</sup>	Jurisdiction of Incorporation/Organization	Ownership
Pouce Coupé Pipe Line Ltd.	Canada (Federal)	100%
Plateau Pipe Line Ltd.	Alberta	100%
Pembina Marketing Ltd.	Alberta	100%
Pembina Gas Services Ltd.	Alberta	100%
Pembina Pipeline	Alberta	100%
Pembina Oil Sands Pipeline L.P.	Alberta	100%
Pembina Midstream Inc.	Alberta	100%
Pembina Midstream Limited Partnership	Alberta	100%
Pembina Gas Services Limited Partnership	Alberta	100%
Pembina NGL Corporation	Alberta	100%
Pembina Facilities NGL LP	Alberta	100%
Pembina Empress NGL Partnership	Alberta	100%
Pembina Resource Services Canada	Alberta	100%
Pembina Infrastructure and Logistics LP	Alberta	100%
Pembina Prairie Facilities Holdco Ltd.	Alberta	100%
Pembina Prairie Facilities Ltd.	Alberta	100%
Pembina Resource Services (U.S.A.)	Michigan, US	100%

(1) Subsidiaries are omitted where, at Pembina's most recent financial year-end: (i) the total assets of the subsidiary do not exceed 10 percent of Pembina's consolidated assets; (ii) the revenue of the subsidiary does not exceed 10 percent of Pembina's consolidated revenue; and (iii)

the conditions in (i) and (ii) would be satisfied if the omitted subsidiaries were aggregated, and the reference in (i) and (ii) changed from 10 percent to 20 percent.

## Amended Articles

On May 13, 2013, Pembina filed articles of amendment under the ABCA to create a new class of shares, the Class A Preferred Shares, to change the designation and terms of the Class B Preferred Shares, and to increase the maximum number of directors of Pembina from eleven to thirteen, after receiving Shareholder approval for such amendments. On July 22, 2013, Pembina filed articles of amendment under the ABCA to create the Series 1 and Series 2 Class A Preferred Shares. On September 30, 2013, Pembina filed articles of amendment under the ABCA to create the Series 3 and Series 4 Class A Preferred Shares. On January 9, 2014 Pembina filed articles of amendment under the ABCA to create the Series 5 and Series 6 Class A Preferred Shares. On September 4, 2014 Pembina filed articles of amendment under the ABCA to create the Series 7 and Series 8 Class A Preferred Shares. On April 8, 2015 Pembina filed articles of amendment under the ABCA to create the Series 9 and Series 10 Class A Preferred Shares.

On October 1, 2015, Pembina filed articles of amalgamation under the ABCA to effect a vertical short form amalgamation with its wholly owned subsidiary Alberta Oil Sands Pipeline Ltd. as part of an internal reorganization.

On January 14, 2016 Pembina filed articles of amendment under the ABCA to create the Series 11 and Series 12 Class A Preferred Shares.

## GENERAL DEVELOPMENTS OF PEMBINA

During the three-year period ending on December 31, 2015 and 2016 year-to-date, Pembina continued to execute its business plan and advance its growth strategy as discussed below.

## **Developments in 2013**

2013	February	On February 22, 2013, Pembina filed the 2013 Base Shelf Prospectus with the securities commissions or similar regulatory authorities in each of the Provinces of Canada.
2013	February	Pembina announced it reached its contractual threshold to proceed with its previously announced Phase II LVP Expansion.
2013	March	Pembina announced plans to proceed with an expansion of its existing NGL infrastructure at a combined capital cost of approximately \$1 billion. The expansion was comprised of three components along the NGL value chain, including (a) the twinning of the Saturn I facility (" <b>Saturn II</b> "), (b) the twinning of the Redwater Plant (" <b>RFS II</b> "), and (c) the previously announced Phase II HVP Expansion.
2013	March	Pembina announced an open season to determine industry interest in a future expansion of its crude oil, condensate and NGL pipelines in northwest Alberta.
2013	March	On March 21, 2013, Pembina completed a bought deal offering of 11,206,750 Common Shares at a price of \$30.80 per Common Share pursuant to a prospectus supplement dated March 14, 2013 under its 2013 Base Shelf Prospectus, for aggregate gross proceeds of approximately \$345 million. Pembina used the net proceeds from the sale of the Common Shares to reduce short-term indebtedness of Pembina under its then-current credit facilities and for general corporate purposes.

- 2013 May Pembina filed amended articles to: (i) create the Class A Preferred Shares; (ii) change the designation and terms of the Class B Preferred Shares; and (iii) increase the maximum number of directors of Pembina from 11 to 13.
- 2013 April On April 30, 2013, Pembina issued and sold \$200 million aggregate principal amount of Medium Term Notes, Series 3 pursuant to a pricing supplement under its 2013 Base Shelf Prospectus as supplemented by a prospectus supplement thereto dated April 24, 2013. The notes have a fixed interest rate of 4.75 percent per annum, paid semi-annually, and will mature on April 30, 2043. Pembina used the net proceeds from the sale of the Medium Term Notes, Series 3 to repay a portion of its then-current credit facilities. See "Description of the Capital Structure of Pembina – Medium Term Notes".
- 2013 June Pembina announced that it had entered into an Engineering Support Agreement ("**ESA**") for a diluent and diluted bitumen pipeline system (the "**Cornerstone Pipeline**") associated with a third-party's enhanced oil recovery developments in northeast Alberta.
- 2013 July On July 26, 2013, Pembina completed a bought deal offering of 10,000,000 Series 1 Class A Preferred Shares at a price of \$25.00 per Series 1 Class A Preferred Share pursuant to a prospectus supplement dated July 19, 2013 under its 2013 Base Shelf Prospectus, for aggregate gross proceeds of \$250 million. Pembina used the net proceeds from the sale of Series 1 Class A Preferred Shares to partially fund capital projects, to reduce short-term indebtedness of Pembina under its then-current credit facilities and for other general corporate purposes. See "*Description of the Capital Structure of Pembina – Class A Preferred Shares*".
- 2013 July On July 31, 2013, Pembina announced that it had secured long-term, fee-for-service agreements with a third party for the use of an underground storage cavern at Pembina's Redwater Plant, and that it planned to upsize certain facilities associated with RFS II to accommodate the future development of a third 55,000 bpd propane-plus fractionator at Redwater ("**RFS III**").
- 2013 August Pembina announced that it planned to construct, own and operate a new 100 MMcf/d shallow cut gas plant and associated NGL and gas gathering pipelines near its existing Musreau I facility in west central Alberta ("**Musreau II**"), at an expected capital cost of \$110 million. Musreau II is underpinned by long-term contracts with area producers for 100 percent of the facility's capacity.
- 2013 August On August 9, 2013, Pembina announced that its Board of Directors had approved a 3.7 percent increase in its monthly Common Share dividend rate from \$0.135 per Common Share to \$0.14 per Common Share.
- 2013 September Pembina announced on September 3, 2013 that it acquired a site in the Alberta industrial heartland for approximately \$20 million, featuring an existing rail system and utility infrastructure to support the future development of rail, terminalling and storage facilities (the "**Heartland Hub**"). The Heartland Hub is in close proximity to major oil sands pipeline rights-of-way, existing crude oil and petrochemical infrastructure and Pembina's Redwater Plant.
- 2013 September Pembina announced on September 16, 2013 that it planned to proceed with a \$115 million expansion of its Peace Pipeline system between Simonette and Fox Creek, Alberta.

- 2013 October Saturn I was placed into service. The Saturn I facility is connected to Repsol Oil & Gas Canada Inc.'s Wild River and Bigstone gas plants through existing and newly constructed gas gathering lines. Saturn I has a gross capacity of 200 MMcf/d and 13,500 bpd of NGL extraction capability. Pembina also completed an NGL pipeline lateral to transport the extracted NGL from the Saturn I facility to the Peace Pipeline.
- 2013 October On October 2, 2013, Pembina completed a bought deal offering of 6,000,000 Series 3 Class A Preferred Shares at a price of \$25.00 per Series 3 Class A Preferred Share pursuant to a prospectus supplement dated September 25, 2013 under its 2013 Base Shelf Prospectus, for aggregate gross proceeds of \$150 million. Pembina used the net proceeds from the sale of Series 3 Class A Preferred Shares to partially fund capital projects, to reduce short-term indebtedness of Pembina under its then-current credit facilities and for other general corporate purposes. See "Description of the Capital Structure of Pembina – Class A Preferred Shares".
- 2013 November Pembina announced its capital spending plan of approximately \$1.5 billion for 2014 driven by its success in securing growth opportunities in 2013 and directed mainly at multi-year execution projects that have in-service dates ranging up to mid-2015.
- 2013 December Pembina completed construction on the Phase I NGL Expansion and the Phase I Crude Oil and Condensate Expansion.
- 2013 December Pembina announced that pursuant to its previously announced open season in March 2013, it had reached binding commercial agreements to proceed with constructing approximately \$2 billion in pipeline expansions, underpinned by long-term, fee-for-service agreements with 30 customers in Pembina's operating areas (the "**Phase III Expansion**"). The Phase III Expansion will follow and expand upon certain segments of Pembina's existing pipeline systems from Taylor, British Columbia southeast to Edmonton, Alberta. With the Phase III Expansion, Pembina revised its 2014 capital budget to approximately \$1.7 billion.

# **Developments in 2014**

- 2014 January Bob Michaleski, Pembina's former President and Chief Executive Officer, retired effective December 31, 2013 and Mick Dilger, formerly President and Chief Operating Officer, assumed the role of Chief Executive Officer effective January 1, 2014 and also joined Pembina's Board of Directors.
- 2014 January On January 16, 2014, Pembina completed a bought deal offering of 10,000,000 Series 5 Class A Preferred Shares at a price of \$25.00 per Series 5 Class A Preferred Share pursuant to a prospectus supplement dated January 9, 2014 under its 2013 Base Shelf Prospectus, for aggregate gross proceeds of \$250 million. Pembina used the net proceeds from the sale of Series 5 Class A Preferred Shares to partially fund its 2014 capital budget, to reduce indebtedness of Pembina under its then-current credit facilities and for other general corporate purposes. See "*Description of the Capital Structure of Pembina – Class A Preferred Shares*".
- 2014 February On February 26, 2014, Pembina announced that the Chairman of the Board, Lorne Gordon, would step down from his role as Chairman, while remaining a director, effective April 1, 2014 and that Randall Findlay would assume the role of Chairman of the Board effective the same day.
- 2014 April Pembina was added to the S&P/TSX 60.

- 2014 April On April 4, 2014, Pembina issued and sold \$600 million aggregate principal amount of Medium Term Notes, Series 4 pursuant to a pricing supplement under its 2013 Base Shelf Prospectus as supplemented by a prospectus supplement thereto dated April 1, 2014. The notes have a fixed interest rate of 4.81 percent per annum, paid semi-annually, and will mature on March 25, 2044. Pembina used the net proceeds from the sale of the Medium Term Notes, Series 4 to repay certain long-term debt as well as to fund Pembina's capital program and for other general corporate purposes. See "Description of the Capital Structure of Pembina Medium Term Notes".
- 2014 May Pembina announced that it had reached binding commercial agreements to proceed with constructing RFS III and a new HVP pipeline lateral that would extend the gathering potential of its Brazeau/Caroline Pipeline in the Willesden Green area of south-central Alberta, at an expected capital cost of approximately \$400 million (including associated caverns and capital previously announced for the RFS III pre-build) for RFS III, and \$60 million for the HVP lateral.
- 2014 August On August 6, 2014, Pembina placed its previously announced pipeline expansion between Simonette and Fox Creek into service.
- 2014 September On September 2, 2014, Pembina announced that it had entered into an agreement (the "Terminal Agreement") with the Port of Portland, Oregon to enable the development of Pembina's planned West Coast propane export terminal project (the "West Coast Terminal"). The Terminal Agreement set forth the terminal site, including an existing marine berth, located within the city of Portland for the development of the West Coast Terminal, and also outlined the material commercial lease terms for the West Coast Terminal, subject to Pembina and the Port entering into definitive agreements, and the receipt of all environmental and regulatory permits and approvals necessary for the development of the West Coast Terminal.
- 2014 September On September 4, 2014, Pembina announced that it had filed the necessary regulatory applications with the AER for its Fox Creek, Alberta to Namao Junction, Alberta segment of its previously announced Phase III Expansion.
- 2014 September On September 10, 2014, Pembina announced plans to expand its previously announced Phase III Expansion by constructing a new 16" diameter pipeline from Fox Creek, Alberta into Namao, Alberta and a new 12" diameter pipeline from Wapiti, Alberta into Kakwa. Pembina has since increased the size of the Wapiti to Kakwa pipeline from a 12" to a 16" diameter pipeline, at a combined estimated capital cost of approximately \$435 million, bringing total estimated capital costs for the Phase III Expansion to \$2.44 billion.
- 2014 September On September 11, 2014, Pembina completed a bought deal offering of 10,000,000 Series 7 Class A Preferred Shares at a price of \$25.00 per Series 7 Class A Preferred Share pursuant to a prospectus supplement dated September 4, 2014 under its 2013 Base Shelf Prospectus, for aggregate gross proceeds of \$250 million. Pembina used the net proceeds from the sale of Series 7 Class A Preferred Shares to help fund a portion of the cash consideration for the Vantage Acquisition (as defined below), which closed on October 24, 2014, as well as to fund a portion of the remainder of the Company's 2014 capital expenditure program and for general corporate purposes. See "Description of the Capital Structure of Pembina – Class A Preferred Shares".

- 2014 September On September 25, 2014, Pembina announced that it had been informed by Statoil that Statoil's Cornerstone oil sands project had been deferred for an indeterminate period of time, and as a result the ESA for the Cornerstone Pipeline expired at the end of September and no additional capital would be spent on the pipeline project.
- 2014 September On September 30, 2014, Pembina announced that Thomas W. Buchanan had tendered his resignation from Pembina's Board of Directors.
- 2014 October On October 6, 2014, Pembina placed Resthaven into service.
- 2014 October On October 7, 2014, Pembina announced that Anne-Marie Ainsworth had been appointed to Pembina's Board of Directors.
- 2014 October 9, 2014, Pembina announced plans to proceed with construction of the Canadian Diluent Hub ("**CDH**"), a large-scale condensate and diluent terminal at its Heartland Hub site near Fort Saskatchewan, Alberta. CDH will link growing Montney and Duvernay volumes gathered on the Peace Pipeline system to existing take away capacity situated at the Heartland Hub and will initially leverage existing condensate storage and take-away pipeline infrastructure from Pembina's Redwater site. Development of storage facilities and takeaway pipelines for CDH will be focused at Pembina's Heartland Hub. Subject to environmental and regulatory approvals, the in-service date of the project is expected to be mid-2017.
- 2014 October On October 10, 2014, Pembina announced that it had entered into commercial agreements to proceed with an expansion of the Company's Resthaven facility and to build, own and operate a gas gathering pipeline that would deliver gas into Resthaven, at a total estimated capital cost of \$170 million (the "**Resthaven Expansion**").
- 2014 October On October 24, 2014, Pembina announced that it had closed the acquisition of the Vantage Pipeline and Mistral Midstream Inc.'s interest in SEEP, through the acquisition of all of the equity interests of Vantage Pipeline Canada ULC, Vantage Pipeline US LP (collectively, "Vantage") and Mistral Midstream Inc. (the "Vantage Acquisition") for total consideration of \$733 million. Consideration for the transaction consisted of cash of \$217 million, the issuance of 5.61 million Common Shares of the Company valued at \$266 million, and repayment of Vantage's bank indebtedness of \$250 million at closing. The fair value of the Common Shares issued was based on the TSX-listed share price on the closing date of the Vantage Acquisition.
- 2014 November On November 11, 2014, Pembina announced that it had entered into binding agreements to proceed with a \$210 million expansion to Pembina's pipeline infrastructure in northeast British Columbia (the "**NEBC Expansion**"), which will transport condensate and NGL for various producers in the Montney resource play.
- 2014 November On November 27, 2014, Pembina announced plans to construct a new facility and expand its gas processing capacity near its existing Musreau I and Musreau II facilities by 100 MMcf/d ("**Musreau III**") for an estimated capital cost of \$105 million.
- 2014 December On December 17, 2014, Pembina placed the Musreau II facility into service, ahead of the previously scheduled in-service date of first quarter 2015.
- 2014 December Pembina announced its capital spending plan of approximately \$1.9 billion for 2015 directed mainly at multi-year execution projects that have in-service dates ranging up to mid-2017.

#### **Developments in 2015**

- 2015 January Peter Robertson, Pembina's former Senior Vice President and Chief Financial Officer, retired effective December 31, 2014 and Scott Burrows was promoted to the position of Vice President, Finance and Chief Financial Officer effective January 1, 2015.
- 2015 January On January 15, 2015, Pembina announced that Gordon J. Kerr had been appointed to Pembina's Board of Directors.
- 2015 February On February 2, 2015, Pembina issued and sold \$450 million aggregate principal amount of Medium Term Notes, Series 5 and \$150 million aggregate principal amount of its Medium Term Notes, Series 3, through a re-opening, pursuant to two pricing supplements dated January 28, 2015 under its 2013 Base Shelf Prospectus as supplemented by a prospectus supplement thereto dated April 24, 2013. The Medium Term Notes, Series 5 have a fixed interest rate of 3.54 percent per annum, paid semi-annually, and will mature on February 3, 2025. Pembina used the net proceeds from the sale of the notes to reduce short-term indebtedness of Pembina under its then-current credit facilities, as well as to fund Pembina's capital program and for other general corporate purposes. See "Description of the Capital Structure of Pembina Medium Term Notes".
- 2015 February On February 10, 2015, the Company announced that it had entered into agreements to expand the Vantage Pipeline (the "**Vantage Expansion**") for an estimated capital cost of \$85 million. The Vantage Expansion entails increasing Vantage's mainline capacity from 40,000 bpd to approximately 68,000 bpd through the addition of mainline pump stations and the construction of a new 80 km, 8" gathering lateral.
- 2015 April On April 10, 2015, Pembina completed a bought deal offering of 9,000,000 Series 9 Class A Preferred Shares at a price of \$25.00 per Series 9 Class A Preferred Share pursuant to a prospectus supplement dated April 2, 2015 under its 2015 Base Shelf Prospectus, for aggregate gross proceeds of \$225 million. The Series 9 Preferred Shares were listed on the Toronto Stock Exchange under the symbol "PPL.PR.I. ". Pembina used the net proceeds from the sale of Series 9 Class A Preferred Shares to reduce its indebtedness under its then-current credit facilities. See "Description of the Capital Structure of Pembina – Class A Preferred Shares".
- 2015 April On April 27, 2015 Pembina announced that it had placed its Phase II LVP Expansion into service. The Phase II LVP Expansion adds an incremental 55,000 bpd to the Company's Peace Pipeline system, bringing total capacity on this line to over 250,000 bpd at a capital cost of approximately \$340 million.
- 2015 May On May 5, 2015, Pembina announced that its Board of Directors approved a 5.2 percent increase in its monthly Common Share dividend rate from \$0.145 per Common Share to \$0.1525 per Common Share.
- 2015 May On May 21, 2015, Pembina announced that it will provide terminalling services for the North West Redwater Partnership with respect to the partnership's planned refinery at an expected capital cost of \$180 million. The terminalling services will be provided under a 30year fixed return agreement and a 10-year natural gas liquids mix purchase and sale agreement related to the third fractionator being constructed at the Redwater site.

- 2015 May On May 21, 2015, Pembina separately announced it had entered into agreements to construct a new pipeline lateral in the Karr area of Alberta with expected capacity of approximately 30,000 bpd for an estimated capital cost of \$55 million.
- 2015 June On June 4, 2015, Pembina announced the expansion of its existing Horizon Pipeline for an estimated capital cost of approximately \$125 million (the "Horizon Expansion"). The Horizon Expansion is expected to increase the capacity on the Horizon Pipeline to 250,000 bpd through the upgrading of mainline pump stations and other facility modifications, as required.
- 2015 June On June 16, 2015, Pembina issued and sold \$600 million aggregate principal amount of Medium Term Notes, Series 6 and \$100 million aggregate principal amount of its Medium Term Notes, Series 3, through a re-opening, pursuant to two pricing supplements dated June 11, 2015 under its 2015 Base Shelf Prospectus. The Medium Term Notes, Series 6 have a fixed interest rate of 4.24 percent per annum, paid semi-annually, and maturing on June 15, 2027. Pembina used the net proceeds from the sale of the notes to repay its short-term indebtedness under its Credit Facilities, as well as to fund Pembina's capital program and for other general corporate purposes. See "Description of the Capital Structure of Pembina Medium Term Notes".
- 2015 September On September 2, 2015, Pembina announced the commissioning of Saturn II, SEEP and the gathering pipeline associated with the Resthaven Expansion. Combined, these projects represented a capital investment of approximately \$320 million. Pembina also announced the commissioning of Phase II HVP. Phase II HVP is expected to increase the NGL capacity on the Peace and Northern Pipelines by approximately 53,000 bpd, representing a capital investment of approximately \$330 million.
- 2015 October On October 13, 2015, Pembina completed the redemption of the outstanding principal amount of its Series C and Series E Convertible Debentures (the "**Redemption**"). Pembina elected to satisfy the Redemption price of both series of debentures through the issuance of Common Shares.
- 2015 November On November 5, 2015, Pembina announced plans to construct, own and operate a new 100 MMcf/d shallow cut gas plant ("**Duvernay I**") in close proximity to Pembina's Fox Creek Terminal. The expected capital cost for Duvernay I is expected to be approximately \$125 million. NGL extraction capacity is expected at approximately 5,500 bpd, to be transported on the Peace Pipeline system.
- 2015 November On November 19, 2015, Pembina completed a bought deal offering of 15,335,250 Common Shares at a price of \$30.00 per Common Share pursuant to a prospectus supplement dated November 12, 2015 under its 2015 Base Shelf Prospectus, for aggregate gross proceeds of approximately \$460 million. Pembina used the net proceeds from the sale of the Common Shares to partially fund capital expenditures related to its capital program, and for general corporate purposes.
- 2015 November Pembina announced its capital spending plan of approximately \$2.1 billion directed at advancing multi-year execution projects that have in-service dates ranging up to late-2017.

#### 2016 Year to Date Developments

- 2016 January On January 7, 2016, Pembina announced certain amendments to its DRIP. The amendments allow Pembina's Board of Directors to set the discount under the regular dividend reinvestment component of the DRIP at a rate of up to five percent of to the Average Market Price (as defined in the DRIP). Until otherwise announced by Pembina, the Board has set the current discount rate at three percent to the Average Market Price. The amendments also include a reduction of the premium to the regular cash dividend paid to Shareholders who participate in the Premium Dividend<sup>™</sup> component of the DRIP from 102 percent to 101 percent.
- 2016 January On January 15, 2016, Pembina completed a bought deal offering of 6,800,000 Series 11 Class A Preferred Shares at a price of \$25.00 per Series 11 Class A Preferred Share pursuant to a prospectus supplement dated January 8, 2016 under its 2015 Base Shelf Prospectus, for aggregate gross proceeds of \$170 million. Pembina used the net proceeds from the sale of Series 11 Class A Preferred Shares to reduce the indebtedness of the Company under the Credit Facilities as well as for capital expenditures and working capital requirements in connection with the Company's 2016 capital program. See "Description of the Capital Structure of Pembina – Class A Preferred Shares".
- 2016 February On February 25, 2016, Pembina announced that while it remains committed to providing market access solutions for its customers by developing a North American West Coast Terminal, it has decided that it will not be proceeding with the previously announced location in Portland, Oregon and is instead evaluating multiple other west coast sites.
- 2016 February Concurrently on February 25, 2016, Pembina announced that it had entered into agreements for the construction of a new pipeline lateral in the Altares area of British Columbia (the "**Altares Lateral**") which will transport production from the Montney resource play and will connect into Pembina's NEBC Expansion for an expected capital cost of approximately \$70 million. The Altares Lateral is underpinned by a long-term, cost-of-service agreement and is expected to have capacity of approximately 18,000 bpd with an anticipated in-service date of mid-2017, subject to environmental and regulatory approval.

## DESCRIPTION OF PEMBINA'S BUSINESS AND OPERATIONS

## **Pembina's Business Objective and Strategy**

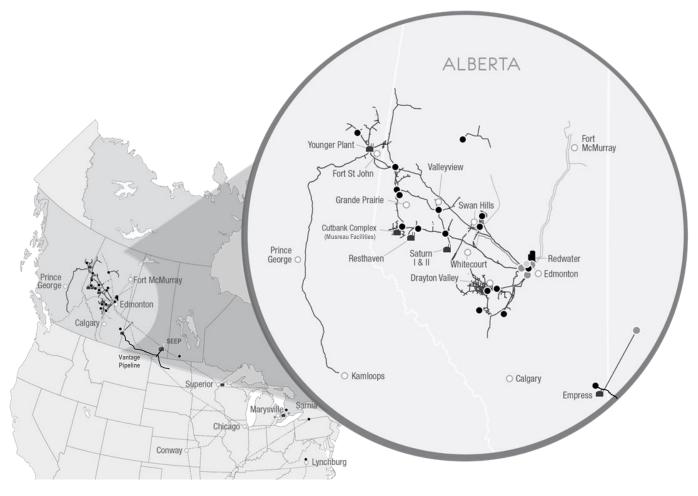
Pembina is committed to working with its community and aboriginal neighbours while providing value for investors in a safe and environmentally responsible manner. This balanced approach to operating ensures the trust Pembina builds among all of its stakeholders is sustainable over the long term. Pembina's goal is to provide highly competitive and reliable returns to investors through monthly dividends on its Common Shares while enhancing the long-term value of its securities. To achieve this, Pembina's strategy is to:

- Preserve value by providing safe, responsible, cost-effective and reliable services.
- Diversify Pembina's asset base along the hydrocarbon value chain by providing integrated service offerings which enhance profitability.
- Pursue projects or assets that are expected to generate increased cash flow per share and capture long-life, economic hydrocarbon reserves.
- Maintain a strong balance sheet through the application of prudent financial management to all business decisions.

## **Overview of Pembina's Business**

There are three general sectors in the oil and gas industry: "upstream", "midstream" and "downstream". The upstream sector encompasses exploration for and production of hydrocarbon liquids in their raw forms. In the midstream sector, hydrocarbon products are gathered, processed, transported and marketed to the downstream sector. The downstream sector consists of refiners, end-use customers, local distributers and wholesalers.

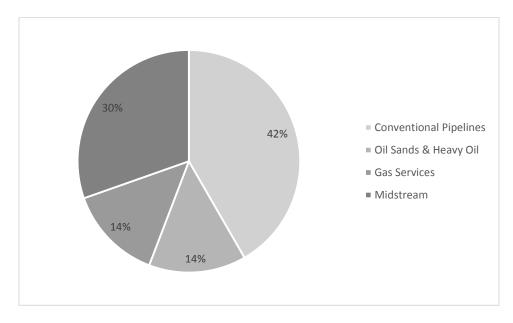
Pembina is a leading transportation and midstream service provider that has been serving North America's energy industry for over 60 years. Pembina owns and operates an integrated system of pipelines that transport various products derived from natural gas and hydrocarbon liquids produced in western Canada and North Dakota. Pembina also owns and operates gas gathering and processing facilities and an oil and NGL infrastructure and logistics business. With facilities strategically located in western Canada and in NGL markets in eastern Canada and the U.S., Pembina also offers a full spectrum of midstream and marketing services that span across its operations. Pembina's integrated assets and commercial operations along the entire hydrocarbon value chain allow it to offer a full spectrum of midstream and marketing services to the energy sector. The business segments of Pembina are grouped for functional, geographic and accounting purposes into four categories, described in their respective sections: Conventional Pipelines; Oil Sands & Heavy Oil; Gas Services; and Midstream.



# **Operations Overview**

The above map illustrates Pembina's assets:

- Gas Processing Plant
- Redwater Fractionator
- Midstream Storage Facility
- Truck Terminal
- Rail Terminal
- Oil Sands and Heavy Oil Pipelines
- Conventional Pipelines
- ----- Third Party Pipelines



The net revenue contribution from each of Pembina's four businesses in 2015 was divided as follows:

The following table sets forth certain financial and operating highlights for 2015, 2014 and 2013.

## **Financial and Operating Highlights**

(in \$ millions unless otherwise noted)

	<u>Conve</u>	ntional P	ipelines	<u>Oil Sanc</u>	Oil Sands & Heavy Oil <sup>(3)</sup>			Gas Services			Midstream <sup>(4)</sup>			<u>Total</u> <sup>(6)</sup>		
A	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	
Average revenue volumes <sup>(1)</sup> ( <i>mbpd,</i> <i>except as otherwise</i> <i>indicated</i> )	614 <sup>(1)</sup>	575 <sup>(1)</sup>	492 <sup>(1)</sup>	880	880	880	110 <sup>(5)</sup>	86 <sup>(5)</sup>	53 <sup>(5)</sup>	116	119	109	1,720	1,660	1,534	
Revenue	628	513	411	213	204	195	209	165	121	3,694	5,259	4,346	4,744	6,141	5,073	
Net Revenue <sup>(2)</sup>	628	513	411	213	204	195	208	165	121	458	587	580	1,507	1,469	1,307	
Operating expenses	224	211	162	74	68	64	64	58	43	71	69	91	433	406	360	
Realized (gain) loss on commodity- related derivative financial instruments	3		(2)							(40)	(10)	3	(37)	(10)	1	
Operating margin <sup>(2)</sup>	401	302	251	139	136	131	144	107	78	427	528	486	1,111	1,073	946	

Notes:

<sup>(1)</sup> Revenue volumes are equal to contracted plus interruptible volumes.

<sup>(2)</sup> See "Non–GAAP and Additional GAAP Measures".

<sup>(3)</sup> Revenue is contract-based and independent of utilization rates, therefore volumes reported are contracted capacity.

<sup>(4)</sup> Midstream revenue is net of \$3,236 million in cost of goods sold, net of product purchases for 2015 (2014: \$4,672; 2013: \$3,766 million). Average volume in Midstream represents NGL sales volumes.

<sup>(5)</sup> Average volume for Gas Services is in mboe/d, which is converted from MMcf/d at a ratio of 6:1. Average MMcf/d processed in 2015 was 656 MMcf/d (2014; 515MMcf/d; 2013: 319 MMcf/d).

(6) Not including corporate and intersegment eliminations – see Operating Segments note in the Consolidated Annual Audited Financial Statements.

Further discussion of operational results and new developments and outlook for Pembina's four business segments for the years ended December 31, 2015 and 2014 is contained in the section "*Operating Results*" in the MD&A, which section is incorporated by reference herein.

# **Conventional Pipelines Business**

## Overview

Pembina's Conventional Pipelines business comprises a well-maintained and strategically located 9,100 km pipeline network that extends across much of Alberta and parts of British Columbia. The Vantage Pipeline also transports specification ethane from gas plants in North Dakota and Saskatchewan to Empress, Alberta, where it is delivered onto a third-party pipeline. The primary objectives of this business are to provide safe, reliable, responsible and cost effective transportation services for customers, pursue opportunities for increased throughput, and maintain and/or grow sustainable operating margin on invested capital by capturing incremental volumes, expanding its pipeline systems, growing and sustaining revenue and following a disciplined approach to its operating expenses.

## Major Customers

There are approximately 50 shippers (including many major shippers of petroleum products in western Canada) on the conventional pipeline systems owned and operated by Pembina. The primary delivery points for hydrocarbon products include the Enbridge Pipeline systems for multiple products; the Kinder Morgan North 40 terminal and the Trans Mountain pipeline system at Edmonton, Alberta and Kamloops, British Columbia; the Strathcona refinery in the Edmonton area; Husky Energy's Prince George refinery; as well as the Gibson Terminal, the Alberta Ethane Gathering System near Empress, Alberta and all major NGL fractionators near Fort Saskatchewan, Alberta.

# Contractual Arrangements

The contracts within Pembina's Conventional Pipelines business are fee-for-service in nature, but vary in their structure as follows:

# Non-Firm Contracts

Capacity within the Conventional Pipelines business that has not been secured under the "*Firm Contracting*" structure described below is contracted under fee-for-service, evergreen-style, month-to-month contracts on an interruptible basis that allow Pembina to adjust tolls for actual volumes, operating expenses and capital expenditures on a periodic basis. These contracts do not require Pembina to guarantee a specified amount of dedicated pipeline capacity for a customer. Rather, customers nominate volumes on a monthly basis and tariffs are set periodically by receipt point.

Pembina's B.C. Pipelines are operated under a cost-of-service methodology which is reviewed annually and/or semiannually whereby Pembina is able to flow through the actual operating costs of the systems to shippers while recovering an acceptable return on invested capital; however, there is no firm volume commitment under a longterm agreement as would be typical in a cost-of-service agreement.

# Firm Contracting

Since 2012, Pembina has focused on securing base volumes on its Peace, Northern and Vantage Pipeline systems under a firm contract structure, where a fee-for-service toll (which includes flow-through operating costs for power and extraordinary events) is set under the contract and customers receive a firm amount of pipeline capacity for the transportation of their product. Under firm contracts, customers also agree to a minimum volume or revenue commitment ("**take-or-pay**"). Through this process, the significant majority of crude oil, condensate and NGL product transported on the Peace, Northern and Vantage Pipeline systems is contracted under long-term, take-or-pay agreements that provide customers with firm-service in exchange for a minimum revenue requirement. Due to

substantial customer demand for additional capacity, Pembina announced its Phase III Expansion and subsequent upsize in 2013 and 2014, respectively. In the second half of 2014, due to customer demand, Pembina converted a significant majority of the existing and expansion capacity for crude oil, condensate and NGL on the Peace Pipeline system to firm-service, take-or-pay agreements. The Phase III Expansion, including the additional capital for the project announced in 2014, is backstopped by firm-service agreements with a substantial take-or-pay component and have a ten year average in length.

Throughout 2015, Pembina continued to secure contracted volumes across the Conventional Pipelines business. As of February 25, 2016, in aggregate, the Company has secured 777 mbpd of firm-service contract terms of crude oil, condensate and NGL across its Conventional Pipelines business.

# Competitive Environment

Competition among existing crude oil, condensate and NGL pipelines is based primarily on the cost of transportation, access to supply, the quality and reliability of service, contract carrier alternatives, and proximity and access to markets.

Pembina's Conventional Pipelines are feeder pipelines that move products in the field, from batteries, processing facilities and storage tanks, to markets and export pipelines primarily in the Edmonton and Fort Saskatchewan, Alberta, area. Given that the majority of Pembina's pipelines in its Conventional Pipelines business are connected to existing oil batteries and infrastructure, existing volumes generally remain connected to the pipeline system until it is uneconomical to provide pipeline transportation services, usually due to low volume, in which case the connection may be discontinued and the producer may truck volumes to an alternate delivery point. With Pembina's track record of safe, reliable and cost-effective operations, service tenure, the complex nature of its systems and high levels of customer service, it is difficult for a competitor to replicate the high-value service offering that Pembina's service offering as those customers contracted on a long-term basis with Pembina though there was significant competition for the project.

Unlike connected facilities, unconnected volumes of product are typically trucked to the most cost-effective truck unloading facility, and there is direct competition from numerous service providers serving the same area. Most volumes that are trucked are either from locations that are too far away to obtain economic pipeline service or have volumes too small to make a pipeline connection economically viable. Typically, a producer's selection of a truck terminal is only partially based on tolls; often it is also based on whether the volumes need some form of treatment to meet pipeline specifications, as well as arbitrage opportunities associated with the product. Pembina's Conventional Pipelines business owns nine truck terminals (these form part of the Midstream business) to assist in aggregating unconnected volumes onto its systems. There are several other pipelines and terminal operators which compete for trucked volumes in Pembina's operating areas. Competition for these volumes include the Alliance Pipeline and local market fractionators for NGL's, as well as the Rangeland and Rainbow pipelines, rail and numerous other pipelines connected to terminal operations for crude oil and condensate.

Producer activity focused on NGL development continues in the Deep Basin Cretaceous, Montney and Duvernay resource areas served by Pembina's Peace and Northern Pipelines. Continued producer crude oil and condensate development in the vicinity of Pembina's Peace Pipeline has increased future volume forecasts as well. Pembina has successfully been able to leverage its existing assets to provide incremental new capacity in these areas, as evidenced by Pembina's numerous pipeline expansion projects, which are underpinned by long-term, fee-for-service contracts with area producers. These fee-based contracts are only exposed to volume fluctuations above take-or-pay commitments, thus providing very stable cash flow. There is no direct commodity price exposure associated with this type of contract.

A delay in the development of downstream processing, transportation and end-user facilities may also impact the future development and profitability of Pembina's Conventional Pipeline systems. The Edmonton, Alberta area NGL

fractionation capacity may need to be expanded beyond current contracted volumes to process any potential forecasted incremental NGL volumes.

## *Other Information – Industry Regulations*

The feeder pipeline industry in Alberta is regulated by the AER on a complaints basis. Once a permit to construct the pipeline is issued by the AER, subject to the licensing of operational matters or a common carrier declaration, the pipeline is free to establish tolls in a competitive environment. Tolls are established under contracts of varying terms and conditions and are also posted by location for non-firm (interruptible) service. Posted tolls which are applied to non-firm volumes can generally be adjusted to respond to changing volumes, costs and market circumstances. Contracted tolls on firm contracts can also be adjusted, where permitted by the terms of the contract, for such things as changes in power costs, extraordinary natural events that impact pipeline integrity and changes to regulations associated with pipelines. Pipeline customers have recourse to the AER, with respect to pipeline access and discrimination among customers. Tolls for all of Pembina's Conventional Pipelines are generally established to recover all costs and earn a reasonable rate of return on the investment. Over the past 10 years, Pembina is not aware of any toll complaints relating to the Company's systems.

The tolls on the majority of the B.C. Pipelines are regulated by the BCUC. The BCUC approves tolls for common carriers and regulates others on a complaints basis.

Pipeline companies which own and/or operate interprovincial or international pipelines fall under the NEB's jurisdiction. Certain pipelines owned by Pembina's subsidiary, Pouce Coupé Pipe Line Ltd., including the Northwest Pipeline, the Taylor-to-Belloy section of the Northern Pipeline and the Pouce Coupé Pipeline, are regulated by the NEB. Additionally, Pembina's Vantage Pipeline system, which is owned by Pembina Prairie Facilities Ltd., a wholly-owned subsidiary of Pembina, is also regulated by the NEB.

Under NEB regulations, pipeline systems are divided into two groups. Group 1 consists of the major pipeline companies which are subject to ongoing regulatory oversight by the NEB. The other pipeline companies under the jurisdiction of the NEB, not included in Group 1, have been classified as Group 2. Each of Pembina's three subsidiaries that own NEB regulated pipelines are regulated as a Group 2 company by the NEB. For these pipeline systems, the NEB only reviews the tariffs if a customer files a formal complaint concerning the tariffs. There have been no complaints to the NEB about tariffs on these systems for as long as Pembina has owned and operated them.

Pembina is also subject to requirements relating to pipeline abandonment on its NEB regulated pipelines. According to the NEB Reasons for Decision RH-2-2008, which set out the guiding principles and considerations that would be used to set aside funds for pipeline abandonment for pipelines under the NEB's jurisdiction, a five-year action plan for NEB-regulated companies to follow was established. During this five-year period, the NEB issued Hearing Order MH-001-2013 to convene an oral public hearing to consider NEB regulated companies' proposals on how to collect abandonment funds and the mechanisms proposed for abandonment fund collection.

In May, 2014, the NEB issued its MH-001-2013 Reasons for Decision which set out that by January 1, 2015, all NEBregulated companies must have a set-aside mechanism in place to begin accumulating funds to pay for pipeline abandonment. The Northwest Pipeline, Northern Pipeline and Pouce Coupé Pipeline's proposed abandonment fund trust agreements were approved on December 10, 2014, and Pembina filed letters of credit to secure abandonment funds for each of the Taylor to Boundary Lake Pipeline and the Vantage Pipeline on December 23, 2014.

Of Pembina's Conventional Pipelines business 9,100 km of total pipeline systems, approximately 72 percent are subject to AER jurisdiction, 18 percent are subject to the BCOGC jurisdiction, nine percent are subject to the NEB jurisdiction and two percent are subject to other jurisdictions.

Starting in 2016, annual reporting on our trust agreements and letters of credit will be completed annually. Please see Pembina's website at <u>www.pembina.com</u> for information on the Company's set-aside mechanism.

See "Risk Factors – Risks Inherent in Pembina's Business – Abandonment Costs".

## **Oil Sands & Heavy Oil Business**

#### Overview

Pembina plays an important role in supporting Alberta's oil sands and heavy oil industry. Pembina is the sole transporter of synthetic crude oil for the Syncrude Project (via the Syncrude Pipeline) and the Horizon Project (via the Horizon Pipeline) to delivery points near Edmonton, Alberta. Pembina also owns and operates the Nipisi and Mitsue pipelines, which provide transportation for producers operating in the Pelican Lake and Peace River heavy oil regions of Alberta and the Cheecham Lateral, which transports synthetic crude to oil sands producers operating southeast of Fort McMurray, Alberta. Pembina's Oil Sands & Heavy Oil business operates approximately 1,650 km of pipeline and has approximately 880 mbpd of capacity (post Horizon Expansion), under long-term, extendible contracts, which provide for the flow-through of eligible operating expenses to customers. As a result, operating margin from this business is primarily driven by the amount of capital invested and is predominantly not sensitive to fluctuations in operating expenses or actual throughput.

#### Major Customers

The major shippers on Pembina's oil sands, heavy oil and diluent pipelines are large upstream exploration and production companies. Pembina's oil sands and heavy oil pipelines provide dedicated service under long-term contracts.

## Contractual Arrangements

Pembina's Syncrude Pipeline has a capacity of 389,000 bpd and is fully contracted under a cost-of-service, extendable, long-term agreement that expires no earlier than the end of 2035.

Pembina's Cheecham Lateral has a capacity of 136,000 bpd and is fully contracted to shippers under the terms of a 25-year fixed return extendable agreement that expires in 2032.

The Horizon Pipeline is fully contracted to a single customer and will have capacity of up to 250,000 bpd, including the Horizon Expansion (See "*General Developments of Pembina*"). The Horizon Pipeline is operated under the terms of a 25-year fixed return contract, which extends to 2034.

The Nipisi Pipeline, with capacity of 105,000 bpd, and Mitsue Pipeline, with capacity of 22,000 bpd, are contracted under 10-year fee-for-service agreements, with substantial take-or-pay components, which commenced in 2011. These contracts also have extension and expansion rights.

## Competitive Environment

While regional delivery infrastructure capacity is sufficient for current production levels, the primary focus of infrastructure development is expected to be on accessing markets outside of Alberta for the majority of bitumen and heavy oil blend produced in Alberta. In the long term, expansions of existing condensate and synthetic crude diluent supply infrastructure as well as blended bitumen and heavy oil pipeline delivery systems will be required depending on the rate at which oil sands and heavy oil may be produced in the future. See "*Risk Factors – Reserve Replacement, Throughput and Product Demand*."

Given the long-term nature of oil sands and heavy oil investments, most pipelines serving existing production are underpinned by long-term transportation agreements. Competition primarily arises with respect to incremental supply that requires additional pipeline capacity. In some cases, existing pipeline companies have under-utilized assets which can be re-purposed to suit a customer's needs, giving them a competitive advantage when competing for new projects. In other cases, where construction of significant new infrastructure is required, pipeline companies compete for these opportunities based primarily on their operating expertise, cost of capital and commercial flexibility.

## **Gas Services Business**

## Overview

Pembina's operations include a growing natural gas gathering and processing business, which is strategicallypositioned in active and emerging NGL-rich areas in the WCSB and integrated with Pembina's other businesses. Pembina's Gas Services business provides gas gathering, compression, and both shallow and deep cut processing services for its customers, primarily on a fee-for-service basis under long-term contracts. The NGL extracted through this business' facilities are transported on Pembina's Conventional Pipelines. Operating assets within Gas Services include:

- Pembina's Cutbank Complex located near Grande Prairie, Alberta, this facility includes four shallow cut sweet gas processing plants (the Cutbank Gas Plant, Musreau I, Musreau II and the Kakwa Gas Plant) and one deep cut gas processing plant (the Musreau Deep Cut facility). In total, the Cutbank Complex has 525 MMcf/d of processing capacity (468 MMcf/d net to Pembina) and 205 MMcf/d of deep cut gas processing capacity (net to Pembina). The Cutbank Complex also includes approximately 350 km of gathering pipelines.
- Pembina's Saturn Complex located near Hinton, Alberta, includes two identical 200 MMcf/d deep cut gas processing plants (the Saturn I and Saturn II facilities) for a total of 400 MMcf/d of deep cut gas processing capacity as well as approximately 25 km of gathering pipelines.
- Pembina's Resthaven facility located near Grande Cache, Alberta, includes 200 MMcf/d (134 MMcf/d net to Pembina) of integrated shallow and deep cut processing capacity, as well as approximately 30 km of gathering pipelines.
- SEEP services the southeast Saskatchewan Bakken region and has a deep cut processing capacity that could reach 60 MMcf/d with ethane fractionation capabilities and up to approximately 4,500 bpd and 104 km of ethane delivery pipeline.

The Company's Cutbank Complex, Saturn Complex and Resthaven facility are connected to Pembina's Peace Pipeline system. SEEP is connected to Pembina's Vantage Pipeline system. The Company continues to progress construction and development of numerous other facilities in its Gas Services business to meet the growing needs of producers in west central Alberta and Saskatchewan.

# Major Customers

Gas Services has approximately 50 customers, including independent producers as well as some multi-national oil and gas companies. Gas Services processes customers' natural gas at Pembina's Cutbank Complex, Saturn Complex and Resthaven facilities and delivers the natural gas to the TransCanada pipeline system in Alberta and the NGL to the Pembina-owned and operated Peace Pipeline system. Customers' natural gas processed at SEEP is delivered to the TransGas System in Saskatchewan and the ethane is delivered to Pembina's Vantage Pipeline system.

## Contractual Arrangements

Under the contractual arrangements with producers associated with the Cutbank Complex, Saturn Complex, Resthaven facilities and SEEP, Pembina is largely protected from the impact of market fluctuations in the price of natural gas and NGL. The gathering and processing business is based on charging fees to customers on the volume of raw gas that is gathered and/or processed through its facilities and the fees are largely based on a fixed-fee-for-service methodology and, in some instances, based on fixed return on invested capital. The fee-for-service contracts associated with the Gas Services business comprise a mixture of firm (take-or-pay) and interruptible service contracts

of varying durations. The contractual fee structure incorporates a capital fee based on functional unit usage, as well as provisions for the recovery of operating and overhead costs.

Of Pembina's total processing capacity associated with these facilities, 98 percent of the Cutbank Complex capacity, 83 percent of the Saturn Complex capacity (including the recently commissioned Saturn II facility), 100 percent of the Resthaven facility capacity and 100 percent of SEEP capacity is contracted on a firm-service basis. Many of these firm-service contracts incorporate a take-or-pay or fee for non-delivery commitment which allows the processor to manage capacity utilization and revenue risk. In 2015, approximately 73 percent of the revenue from these facilities was protected under contracts containing take-or-pay commitments. Any capacity that is not utilized on a firm-service basis is provided to area producers on an interruptible basis.

Gas Services development projects, including the Resthaven Expansion, Musreau III and Duvernay I also have a significant portion of their operating capacity secured under long-term, take-or-pay arrangements.

## Competitive Environment

Gas producers continued to focus their exploration and development on liquid-rich gas areas during 2015. Land positions continue to be consolidated by producers in the liquid-rich gas regions of British Columbia and Alberta, including the Duvernay and Deep Basin areas, which continue to be the focus of Pembina's Gas Services expansion plans.

With its existing assets, Pembina is able to process gas, extract NGL from the gas, and transport the NGL through its conventional pipelines to its fractionation facility at its Redwater Plant in Fort Saskatchewan, Alberta, where Pembina is then able to separate the component parts of the NGL stream and market the products to end-users. With its integrated service offering along the NGL value chain and substantial gas processing plant construction experience, Pembina believes it is strongly positioned compared to other NGL service providers to capture new business proximal to its existing operating areas. Evidence of this is Pembina's continuing ability to secure new projects, such as Duvernay I, Musreau III and the Resthaven Expansion.

Gas processing infrastructure requirements are largely driven by area profitability, which is impacted by commodity prices, and the gas producer's ability to access capital. In times where gas prices are relatively low and NGL prices are relatively high, producers are incentivized to extract as much NGL out of the raw gas stream as possible. During times when NGL prices are lower, producers may opt to leave more liquids entrenched within their raw gas. Pembina has the flexibility to offer facilities with varying degrees of liquids extraction capability to support customers in a variety of market conditions.

## **Midstream Business**

## Overview

Pembina offers customers a comprehensive suite of midstream products and services through its Midstream business as follows:

- Crude oil Midstream assets are comprised of 17 truck terminals (including nine that form part of the Conventional Pipelines business) where three are capable of emulsion treatment and water disposal, and terminalling at downstream hub locations at PNT, which features storage and terminal connectivity. PNT includes: 21 inbound pipeline connections and 13 outbound pipeline connections to approximately 1.2 mmbpd of crude oil and condensate supply connected to the terminal and 310 mbbls of surface storage in and around the Edmonton and Fort Saskatchewan, Alberta area.
- NGL Midstream includes two NGL operating systems Redwater West and Empress East.

- The Redwater West NGL system ("Redwater West") includes the 750 MMcf/d (322.5 MMcf/d net to Pembina) Younger extraction and fractionation facility in British Columbia.; a 73 mbpd NGL fractionator and 7.3 mmbbls of finished product cavern storage at the Redwater Plant in Redwater, Alberta; and third-party fractionation capacity in Fort Saskatchewan, Alberta. Redwater West purchases NGL mix from various natural gas and NGL producers and fractionates it into finished products for further distribution and sale. Also located at the Redwater site is Pembina's rail-based terminal which services Pembina's proprietary and customer needs for importing and exporting NGL products.
- The Empress East NGL system ("Empress East") includes 2.4 bcf/d capacity in the straddle plants at Empress, Alberta; 20 mbpd of fractionation capacity and 1.1 mmbbls of cavern storage in Sarnia, Ontario; and 5.3 mmbbls of hydrocarbon storage at Corunna, Ontario. Empress East extracts NGL mix from natural gas at the Empress straddle plants and purchases NGL mix from other producers/suppliers. Ethane and condensate are generally fractionated out of the NGL mix at Empress and sold into Alberta markets. The remaining NGL mix is transported by pipeline to Sarnia, Ontario for further fractionation, distribution and sale.

The financial performance of Pembina's Midstream business can be affected by seasonal demands for products and other market factors. In NGL Midstream, propane inventory generally builds over the second and third quarters of the year and is sold in the fourth quarter and the first quarter of the following year during the winter heating season. Condensate, butane and ethane are generally sold rateably throughout the year. See "*Risk Factors – Risks Inherent in Pembina's Business – Midstream Business – Market Risk*".

## Crude Oil Midstream: Major Customers

Pembina's Crude Oil Midstream customers are generally those who produce and/or market crude oil and condensate on Pembina's pipeline systems, are downstream markets for those volumes, or are interested in ancillary services related to those volumes.

Pembina's crude oil terminals are configured to access and provide services for the main, traded grades of Canadian crude oil as well as access domestic and imported condensate streams. When combined with outbound delivery flexibility and above ground storage, the service offerings are positioned to provide potential arbitrage opportunities in volatile price environments.

At Pembina's truck terminals, the Company's customer base generally comprises the same group who seek to transport various product volumes, including condensate, on Pembina's conventional and oil sand systems. Truck terminals are particularly attractive to those producers who are unable to justify pipeline/oil battery connections due to relatively low daily production, or are producing in advance of being pipeline connected. During 2015, Pembina's truck terminal network brought an average of approximately 100,000 bpd of crude oil and condensate onto the conventional pipelines.

## Crude Oil Midstream: Contractual Arrangements

The contractual arrangements underpinning Pembina's Crude Oil Midstream business vary by service offering. Certain of Pembina's full-service terminals are constructed and operated under joint venture agreements with third parties.

In aggregate, the Crude Oil Midstream business' broad service offerings leverage the value chain – focusing on services that complement the existing network of facilities and energy infrastructure across Pembina's asset base. Facilities and services provided by Crude Oil Midstream are complementary to one another and create synergies for Pembina and its customers.

## NGL Midstream: Major Customers

Pembina's NGL Midstream business extracts, processes, stores, transports and markets NGL and offers these services to third-party customers across the WCSB and North America. The assets are integrated across Canada and the US, and are also used to generate fee-for-service income. The business is supported by an integrated supply, marketing and distribution function that contributes to the overall operating margin of Pembina.

Pembina purchases NGL mix from various natural gas producers and fractionates it into finished products at the Redwater Plant. Redwater West also includes natural gas supply volumes from the Younger NGL extraction plant located at Taylor in northeastern British Columbia. The Younger plant supplies specification NGL to local markets as well as NGL mix supply to the Fort Saskatchewan area for fractionation and sale.

Pembina extracts NGL from natural gas at the Empress straddle plants and sells ethane and condensate in the western Canadian marketplace, where condensate is sold as diluent to blend with heavy oil. Pembina transports propane ( $C_3$ )/butane ( $C_4$ ) NGL mix predominantly to Sarnia, Ontario for fractionation and sale into markets in central Canada and the eastern United States.

Ethane is predominately purchased by third-party petro-chemical companies while another third party purchases the majority of the condensate from the Empress debutanizer. Third parties operate the Younger NGL extraction plant, the E1 plant at Empress and storage and fractionation assets in Sarnia, Ontario (which form part of the Empress East system). If for any reason these parties were unable to perform their obligations under the various agreements with Pembina, the revenue and the operations of Pembina's NGL Midstream business could be negatively impacted. See "*Risk Factors – Risks Inherent in Pembina's Business – Reliance on Principal Customers and Operators*".

## NGL Midstream: Contractual Arrangements

Pembina's NGL Midstream business provides a multitude of services for its customers. At Redwater West, Pembina provides fractionation, storage, loading and off-loading services and at Empress East, Pembina provides storage, loading, off-loading and debutanizing (fractionation). Storage services are largely provided to various customers under either a fee-for-service or fixed-return agreement with contract lengths ranging between one to 25 years. Loading and off-loading services are provided on a fee-for-service basis under contracts that range from one-year to multi-year terms. It is common practice for customers to sign up for more than one service with Pembina including storage, loading and off-loading. Fractionation services at Redwater West are provided under a multi-year, fee-for-service contract and debutanizer services at Empress East are provided to a major energy company on a long-term, cost-of-service basis. Pembina's Redwater West and Empress East assets are also employed to generate proprietary income in addition to fee-for-service revenue streams.

# Competitive Environment

Pembina's Midstream business model operates in a competitive environment for transportation, terminalling, storage and rail. The demand for NGL terminalling, storage and rail has grown due to supply growth and downstream consumption interest. This growth in demand for midstream services supported the development of large-scale, fee-for-service infrastructure across Pembina's Midstream business. Going forward, the demand for additional midstream infrastructure will be determined by the rate at which the WCSB hydrocarbon production grows.

Pembina's Midstream infrastructure and logistics business is subject to competition from other truck terminals, storage facilities and fractionators which are either in the general vicinity of the facilities or have gathering systems that are or could potentially extend into areas served by the facilities.

Producers in western Canada compete with producers in other regions to supply crude oil, condensate, NGL and natural gas and other hydrocarbon products to customers in North America, and the hydrocarbon industry also competes with other industries to supply the fuel, feedstock and other needs of consumers. Such competition may

have an adverse effect on the production of hydrocarbon products in western Canada and, as a result, on the demand for Pembina's services.

The value potential associated with Pembina's Midstream service offering is dependent upon the ability of Pembina to: provide connections to both downstream pipelines and end-use markets; understand the value of the commodities transported, stored and terminalled; provide flexibility and a variety of storage options; and adjust to a liquid, responsive, forward commodity market. Pembina actively monitors market conditions and stream values and qualities to target revenue opportunities and service offerings. Pembina is also proactively working with upstream and downstream customers to develop value-added terminalling solutions and increase available optionality. The Midstream business is exposed to commodity price fluctuations, and the recent decline in commodity prices has impacted price differentials. Further, the prices of products that are marketed by Pembina are subject to volatility as a result of such factors as seasonal demand changes, extreme weather conditions, general economic conditions, changes in crude oil markets and other factors. See "*Risk Factors – Midstream Business – Market Risk*."

# OTHER INFORMATION RELATING TO PEMBINA'S BUSINESS

## Information and Communication Systems

Pembina employs modern SCADA technology on all of its pipeline systems. The SCADA systems allow for continuous electronic monitoring and control of the pipeline systems from dedicated computer consoles located in Pembina's Sherwood Park control centre. Operators monitor the computer consoles 24 hours per day, 365 days per year. The SCADA systems and associated leak detection software continually monitor pipeline flow and operating conditions. Line balance calculations are performed automatically by the system and alarms are triggered when imbalances are detected or measured pressures do not match those projected by software models. When imbalance alarms are triggered, trained Control Centre Operators investigate the alarm or shut down the pipeline in accordance with Pembina's Segment Imbalance Response Protocol.

In 2015, Pembina successfully migrated the control of its remaining pipeline systems to the new SCADA environment, used to remotely monitor and control Pembina's pipeline systems, as part of its long-term initiative to upgrade and standardize the SCADA system and leak detection platforms.

In February 2016, Pembina moved control personnel from the Edmonton Control Centre to the newly constructed and state-of-the-art Sherwood Park Control Centre, demonstrating Pembina's commitment to operating safely and reliably.

## **Integrity Management**

Pembina employs comprehensive integrity management programs ("**IMP's**") and dedicates a significant portion of its annual operating budget directly to integrity management activities. Pembina's IMP's include the systems, processes, analysis and documentation designed to ensure proactive and transparent management of its pipeline systems and facilities, and compliance with applicable standards and regulations.

Pembina's IMP's are designed to achieve enhanced safety, reliability and longevity through the entire asset lifecycle and are established in accordance with code requirements set out by the Canadian Standards Association (CSA Z662) and to comply with various regulatory agencies including the NEB, AER and BCOGC.

Proactive integrity management activities extend into pipeline operations with programs including right-of-way patrols and public awareness to reduce the likelihood of third-party damage, system-specific hazard evaluations and risk assessments, geotechnical programs to manage slope instability and river crossings, training and competency management programs for staff and contractors, enhanced emergency response procedures and training exercises, and the use of specific chemicals to reduce the likelihood of internal corrosion from impurities and bacteria in the oil.

Between 2007 and 2012, Pembina completed a baseline geotechnical inspection program of pipelines to inventory all water crossings and slopes and to assess integrity threats posed by these crossings and slopes. Baselines continue each year as new pipelines are constructed or acquired. In 2014, Pembina completed a detailed Braided River Study which identifies water crossings most susceptible to lateral movement. This study allowed Pembina to proactively anticipate where this movement will occur and plan its annual mitigation, monitoring, and inspection procedures accordingly. For 2015, Pembina utilized the findings of this study to transition Pembina's geotechnical and hydrotechnical programs to a more scientific and engineering-based approach, allowing for more accurate assessment of when mitigations need to be completed. This transition is anticipated to be very cost effective for Pembina.

The cornerstone of Pembina's IMP is the use of in-line inspection ("**ILI**") and repair technology to measure and record both the distribution and severity of specific features in the pipe depending on the ILI technology. This technology employs high-resolution magnetic flux leakage tools to identify the location and severity of defects with potential to adversely affect pipeline "fitness-for-service". Through proactive use of these sophisticated electronic tools, defects (both internal and external) with the potential to compromise pipeline integrity are identified and repaired. Projected defect growth rates and/or historical operating knowledge are used to plan re-inspection intervals. Pembina's re-inspection frequency and intervals are typically selected so that remaining defects are re-assessed and repaired before they have a material effect on pipe integrity.

Pembina has employed in-line inspection since the early 1970s, progressing to newer, high resolution ILI technology in the late 1990s and continuing to implement improvements to technology as they become available.

For those line segments with higher susceptibility to crack failures, Pembina also employs specialized ultrasonic ILI crack detection technology. Pembina has completed crack detection inspections on all of its major pipelines that are susceptible to cracking due to their operating conditions and vintage and continues to monitor the susceptibility of cracking on an annual basis. Data from these inspections is analyzed by Pembina and third-party technical experts, in conjunction with pipeline pressure data, to design appropriate mitigation, repair and re-assessment programs.

For pressure vessels and piping associated with Pembina's gas processing and fractionation facilities, Pembina has developed and registered a Pressure Equipment Integrity Management Program ("**PEIMP**") with the Alberta Boilers Safety Association ("**ABSA**"). The PEIMP established methodology, processes and integrity verification activities required to ensure Pembina is in full compliance to the regulatory requirement set forth by ABSA. Pembina was last audited in 2014 and received top quartile scoring based upon all audits conducted by ABSA. In 2015, Pembina conducted a series of internal audits to comply with requirements of the PEIMP and will again be subject to an ABSA regulatory audit in 2016. The objective of the program detailed in the PEIMP is to ensure the reliable, safe operation of pressure equipment and facility equipment, and to prevent injury and environmental damage. The program provides a formal approach to the integrity management of Pembina's facility equipment throughout its life cycle – from design and construction, through operation and maintenance to decommissioning. The program applies to all registered and unregistered pressure equipment. Pembina also undertook additional activities in 2015 to comply with ABSA and other regulatory compliance requirements.

580	147	337
50	19	12
-	73	67
2	4	3
	-	- 73

Summary of 2013, 2014, 2015 and planned 2016 PEIMP activities (in compliance with ABSA):

<sup>(1)</sup> Piping System Inspections' program commenced in 2015.

Notes:

#### **Environmental Matters**

Operation of Pembina's pipelines and other assets are subject to environmental controls in the form of approvals and compliance with applicable federal, provincial, and local laws and regulations. Such laws and regulations govern, among other things, operating and maintenance standards, emissions and waste discharge and disposal. Management believes that Pembina's facilities and operations meet or exceed those requirements. Pembina participates in the following applicable regulated emission reporting programs: Canadian Greenhouse Gas Emissions Reporting Program, Alberta Specified Gas Reporting Program, and the Canadian National Pollutant Release Inventory Reporting Program.

To confirm regulatory compliance and conformance with Pembina's internal environmental standards, Pembina has in place a planned environmental audit program. As part of this program, regularly scheduled third-party environmental compliance audits are conducted at various facilities within a selected business unit each year. The program is designed such that each major business unit is audited at least once every five years.

In addition, Pembina has an incident review panel (the "**IRP**"), which has been in place since the first quarter 2010, that meets monthly and consists of operational, safety and environmental leaders as well as business Vice Presidents, the President and Chief Executive Officer and other members of the executive team. The IRP is focused on analyzing and understanding incident root causes, determining and completing resulting action plans to eliminate re-occurrence and more importantly ensuring that these learnings are fully communicated and implemented on a corporate-wide basis.

Pembina's focus on integrity management and safe operations continues to result in low incident frequency and minimal environmental impact. Pembina makes expenditures each year on pre-existing spill sites, none of which are material to Pembina. In addition to the environmental expenses associated with its operations, Pembina also invests in environmental assessment, planning, permitting and post-construction monitoring associated with capital projects.

#### Provisions

A provision is recognized if, as a result of a past event, Pembina has a present legal or constructive obligation that can be estimated reliably, and it is probable that an outflow of economic benefits will be required to settle the obligation. Provisions are determined by discounting the expected future cash flows at a risk-free rate that reflects current market assessments of the time value of money and the risks specific to the liability. Provisions are re-measured at each reporting date based on the best estimate of the settlement amount. The unwinding of the discount rate is recognized as a finance cost.

#### Decommissioning provision

Pembina's activities give rise to dismantling, decommissioning and site disturbance remediation activities. A provision is made for the estimated cost of site restoration and capitalized in the relevant asset category.

Decommissioning obligations are measured at the present value, based on a risk-free rate, of management's best estimate of the expenditures required to settle the obligation at the balance sheet date. Subsequent to the initial measurement, the obligation is adjusted at the end of each period to reflect the passage of time, changes in the risk-free rate and changes in the estimated future cash flows underlying the obligation. The increase in the provision due to the passage of time is recognized as finance costs whereas increases/decreases due to changes in the estimated future cash flows or risk-free rate are added to or deducted from the cost of the related asset.

For more information with respect to Pembina's estimated net present value of decommissioning obligations, see Note 14 to Pembina's audited consolidated financial statements for the year ended December 31, 2015, which note is incorporated by reference herein. Electronic copies of this document can be found on Pembina's profile on the SEDAR website at www.sedar.com and the EDGAR website at www.sec.gov.

## **Derivative Financial Instruments**

Pembina has entered into derivative financial instruments to limit its exposure to changes in commodity prices, interest rates, cost of power, and foreign exchange rates as well as cash conversion features on convertible debentures and a redemption liability. Hedge accounting has not been applied to any of these instruments; however, Pembina considers there to be an economic hedge supported by the Company's risk management activities which limits the exposure to fluctuations in revenue and expenses.

For more information with respect to Pembina's derivative financial instruments and financial risk management program, see Note 23 to Pembina's audited consolidated financial statements for the year ended December 31, 2015, which note is incorporated by reference herein. Electronic copies of this document can be found on Pembina's profile on the SEDAR website at www.sedar.com and the EDGAR website at www.sec.gov and on Pembina's website at www.pembina.com.

#### **Pipeline Rights-of-Way and Land Tenure**

Pembina's real property interests fall into two basic categories of ownership: (i) a number of locations, including many pumping stations and terminal and storage facilities, which are owned in fee simple; and (ii) the majority of locations which are covered by leases, easements, rights-of-way, permits or licences from landowners or governmental authorities permitting the use of such land for the construction and operation of a pipeline. Pembina believes that the operator of each of its pipeline assets has sufficient property interests to permit the operation of such assets.

#### Indemnification and Insurance

Pembina maintains insurance to provide coverage in relation to the ownership of its assets. Insurance coverage for Pembina's assets currently includes: (i) property insurance coverage, providing coverage on the property and equipment that is above-ground and pipelines at river crossings, with recovery based upon replacement costs, and, where necessary, business interruption coverage for loss of income arising from specific property damage; and (ii) comprehensive general liability coverage, providing coverage for actions by third-parties relating to bodily injury or property damage. The latter coverage includes Pembina's sudden and accidental pollution coverage, which specifically insures against certain claims for third-party damage from leaks or spills.

In addition, Pembina maintains director and officer liability coverage consistent with industry practice.

Pembina believes that it has procured such insurance coverage as would be maintained by a prudent owner and operator of the type of assets owned and operated by Pembina. This insurance coverage is subject to limits and exclusions or limitations on coverage that Pembina considers reasonable given the cost of procuring insurance and current operating conditions. However, there can be no assurance that insurance coverage will be adequate in any particular situation or that insurers will be able to fulfill their obligations should a claim be made. Further, there can be no assurance that such insurance coverage will be available in the future on commercially reasonable terms or at commercially reasonable rates. Pembina also ensures that appropriate coverage is in place during the construction of new infrastructure.

# Employees

As at December 31, 2015, Pembina employed 1,274 personnel, of which 673 were engaged in the performance of field operations and superintendence activities, and 601 were engaged in the performance of facilities engineering, systems, management, finance, accounting, administration, human resources, information services, drafting, business development and safety and environmental service activities. Of the above field operations employees, 18 are unionized. Pembina's workforce is relatively stable with limited turnover and employees are financially encouraged to remain in Pembina's employment through options to purchase Common Shares, long-term incentive programs and pension plans, all of which vest over time.

# **Corporate Social Responsibility**

Pembina is committed to maintaining a high standard of corporate governance and ethical practices, both within the corporate boardroom and throughout its operations. Pembina's corporate governance practices are designed with a view to:

- Enhancing and preserving value;
- Ensuring it meets its obligations to all regulatory bodies, business partners, customers, stakeholders, employees and Shareholders; and
- Operating in a safe, reliable and environmentally responsible way.

# Code of Ethics

The Board of Directors has adopted a Code of Ethics which applies to all directors, officers, employees and contractors of Pembina. The Code of Ethics is available at Pembina's website at www.pembina.com.

In support of the Code of Ethics, Pembina has adopted various business conduct policies covering matters including, but not limited to, ethics, disclosure, insider trading and conflicts of interest, and has adopted a number of specific procedures and guidelines to facilitate compliance with the Code of Ethics and the various policies.

The policies include the:

- Health, Safety and Environment Policy
- Alcohol and Drug Policy
- Respectful Workplace Policy
- Aboriginal Relations Policy
- Whistleblower Policy
- Disclosure Policy
- Insider Trading and Reporting Policy
- Security Management Policy
- Market Risk Policy
- Counterparty Risk Management Policy
- Enterprise Risk Management Policy

# Health, Safety and Environment ("**HSE**") Policy

Health, safety and the environment are top priorities in all of Pembina's operations and business activities. Pembina is committed to being an industry leader in conducting its business so that it meets or exceeds all applicable laws and regulations and to protecting the health and safety of workers, the public and safeguarding the environment affected by its activities. Pembina is also committed to improving its HSE performance. These areas are of paramount importance to management, employees and contractors at the Company. Pembina believes that excellence in HSE practices is essential to the well-being of the Company.

The HSE Committee of Pembina's Board of Directors monitors compliance with the HSE Policy through regular reporting. Pembina's integrated HSE management system is modeled after the International Organization for Standardization standard for environmental management systems (ISO 14001) and the Occupational Health and Safety Assessment Series (OHSAS 18001) for occupational health and safety. Pembina's HSE management system conforms to external industry consensus standards and voluntary regulatory programs and complies with applicable legislated requirements and various other internal management systems. Management is informed regularly of all important and/or significant HSE operational issues and initiatives through formal reporting and incident

management processes, including tracking all "close calls." The HSE management system is subject to ongoing internal and external review to ensure that it remains effective as circumstances change.

## Alcohol and Drug Policy

Pembina is committed to the health, safety and wellness of its employees, contractors and the public. Employees and contractors have a responsibility to report to work capable of performing their tasks productively and safely and remain fit for work throughout their workday or shift and when on scheduled call. Pembina's Alcohol and Drug Policy applies to all employees while they are engaged in Pembina business. The purpose of the policy is to create an environment where employees are able to perform their job safely and responsibly. Additionally, contractors and subcontractors who provide services to Pembina are required to have in place and enforce a drug and alcohol policy that meets or exceeds Pembina's policy or to comply with Pembina's policy.

#### Respectful Workplace Policy

Pembina is committed to providing a workplace that is pleasant, healthy, comfortable, and free from intimidation, hostility or other offenses which might interfere with work performance. Employees are expected to treat each other with respect, fairness and dignity. Discrimination or harassment of any sort will not be tolerated. The purpose of the policy is to create a respectful workplace through the prevention and quick resolution of harassment and/or discrimination.

## Aboriginal Relations Policy

By striving for positive and mutually-beneficial relationships with Aboriginal leadership and communities, Pembina employees, consultants and contractors will help build continued success for Pembina's existing and expanding systems and other businesses. Pembina desires to enter into lasting and mutually-beneficial relationships with all Aboriginal peoples affected by its operations.

#### Whistleblower Policy

Pembina is committed to high standards of professional and ethical conduct in all activities. Pembina's reputation for honesty and integrity among its stakeholders is key to the success of its business. The transparency, honesty, integrity and accountability of Pembina's financial, administrative and management practices are vital. These high standards guide the decisions of the Board of Directors and are relied upon by Pembina's stakeholders and the financial markets.

For these reasons, it is critical to maintain a workplace where concerns regarding questionable business practices can be raised without fear of any discrimination, retaliation or harassment. Pembina also believes that encouraging a culture of openness and ethical leadership from management will help this process. As such, Pembina's Whistleblower Policy encourages directors, officers, employees, consultants, contractors, agents and external stakeholders to act responsibly and raise any serious concerns and report any potential instances of unethical practices within Pembina, rather than overlooking a problem or seeking a resolution of the problem outside Pembina. In addition to raising concerns directly with Pembina management, individuals may report concerns to the chair of the Audit Committee, or may raise concerns on a confidential or anonymous basis through Pembina's whistleblower line which is available 24 hours a day, seven days a week both online and through a toll-free number. Complaints received by Pembina under its Whistleblower Policy are thoroughly investigated.

#### **Disclosure** Policy

Pembina is committed to ensuring material information is provided to the public in a timely, factual, accurate and balanced fashion in accordance with applicable legal and regulatory requirements. Pembina has established a Disclosure Policy which sets out the Company's procedures for maintaining the confidentiality of business information and the timely dissemination of material information to the public.

#### Insider Trading and Reporting Policy

Directors, officers, employees, contractors and agents of Pembina may from time to time become aware of corporate developments, plans or other information, whether affecting Pembina, a customer of Pembina, or otherwise that may affect the value of a public company's securities or that a reasonable investor would be likely to consider important in making an investment decision about Pembina's securities, before these developments, plans or information are made public. Although these individuals have the ultimate responsibility for complying with applicable securities laws, Pembina has established procedures and restrictions with respect to the trading of its securities by personnel in order to assist them in complying with prohibitions against insider trading and tipping. The policy prohibits all personnel from speculating, short-selling, selling a "call option" or buying a "put option" of the Company's securities; establishes scheduled black-out periods where the trading in Pembina's securities by directors, officers and certain employees is prohibited in advance of financial information being released; and outlines the rules and procedures for any extra-ordinary blackouts.

#### Security Management Policy

Pembina is committed to protecting the safety of its workers, the public, and to safeguarding Pembina's facilities, information and information technologies. These areas are of paramount importance to management, employees and contractors at the Company. Pembina believes that excellence in security management is essential to the wellbeing of the Company. As such, Pembina is committed to identifying security risks and establishing appropriate programs and procedures to reduce these risks to an acceptable level, and to testing these programs and procedures to assess their effectiveness on a regular basis.

#### Market Risk Policy

Pembina recognizes that effective management of market risk is a critical success factor in managing organization and shareholder value. Pembina is committed to implementing and maintaining an approach for the management and reporting of material market risks. The policy is intended to define and specify the controls and procedures associated with Pembina's market risk.

# Counterparty Risk Management Policy

The counterparty risk management policy governs the responsibilities and accountabilities for measuring, identifying, validating, monitoring and reporting counterparty exposures and where applicable, the mitigation of counterparty risk as it relates to Pembina's business unit activities. It also outlines the authorities for the receipt and issuance of financial assurances, the establishment of Board-designated counterparty exposure limits by debt rating and a counterparty exposure limit sign-off authority matrix.

#### Enterprise Risk Management Policy

Pembina is committed to raising awareness of the need for enterprise-wide risk management and to establishing a systematic approach for the management and reporting of material business risks. The policy is intended to define enterprise risk management principles and specify expectations associated with Pembina's risk management activities and governance. Enterprise risk management consists of risk management practices and procedures applied across the Company to identify, measure, assess, respond to, monitor and report on principal risks that affect the achievement of business objectives.

#### **Corporate Governance**

Pembina's Board and management are committed to high standards of ethical conduct and corporate governance.

Pembina is a public company listed on the TSX and the NYSE, and it recognizes and respects rules and regulations in both Canada and the U.S.

Pembina's corporate governance practices comply with the Canadian governance guidelines, which include the governance rules of the Canadian Securities Administrators ("**CSA**"):

- National Instrument 52-110 *Audit Committees* (Canadian audit committee rules);
- National Policy 58-201 Corporate Governance Guidelines; and
- National Instrument 58-101 *Disclosure of Corporate Governance Practices*.

Pembina also complies with the governance listing standards of the NYSE and the governance rules of the SEC that apply to foreign private issuers.

Pembina's governance practices comply with the NYSE standards for U.S. companies in all significant respects, except as summarized on Pembina's website at www.pembina.com. As a non-U.S. company, Pembina is not required to comply with most of the governance listing standards of the NYSE. As a foreign private issuer, however, Pembina must disclose how its governance practices differ from those followed by U.S. companies that are subject to the NYSE standards.

Pembina benchmarks its policies and procedures against major North American companies to assess its standards, and it adopts best practices as appropriate. Some of its best practices are derived from the NYSE rules and comply with applicable rules adopted by the SEC to meet the requirements of the *Sarbanes-Oxley Act* of 2002 and the *Dodd-Frank Wall Street Reform and Consumer Protection Act*.

Further information about Pembina's corporate governance will be contained in Pembina's information circular for its 2016 annual meeting.

# CANADIAN OIL AND GAS INDUSTRY

# General

The discussion below provides a high-level overview of the crude and heavy oil industry, the NGL industry and midstream infrastructure industry, with a particular focus on western Canada given that a signification portion of Pembina's operations are situated in Alberta. Pembina also has operations in eastern Canada and the U.S. within its Midstream business. Volumes which feed into those assets originate in western Canada before being transported to eastern markets via a third-party pipeline, as discussed below under "*Product Transportation: Export Liquids Pipeline Systems*". Further, Pembina has an operating footprint in the North Dakota and Saskatchewan Bakken resource play. The Vantage Pipeline imports ethane from these areas into western Canada, as discussed below under "*Product Transportation: Feeder Pipeline Systems*".

Western Canada is the major source of conventional crude oil, SCO, natural gas, bitumen and related products (including NGL and condensate) in Canada. Domestic crude oil and natural gas production in the west comes primarily from Alberta with lesser amounts from British Columbia, Saskatchewan, Manitoba and the Northwest Territories. SCO and bitumen come from the oil sands developments near Fort McMurray, Alberta. Efficient, low cost, and safe transportation by pipeline, rail and truck from producing fields to refineries, processing plants and domestic and export markets is essential to the Canadian oil and gas industry.

# Canadian Crude and Heavy Oil Overview

While western Canada has one of the world's largest crude oil reserves, the WCSB was once considered to be a declining resource. However, over the past number of years, the crude oil industry in Alberta and western Canada in general has been revived due to the implementation of improved drilling technologies which have enabled increased recoveries and have enhanced economics. These technologies (for example, multi-stage hydraulic fracturing) have allowed producers to access tighter areas of conventional reserves as well as shales, which were

previously considered to be uneconomical. Through this development, crude oil produced from the WCSB has significantly increased.

Alberta is also abundant in oil sands – a natural mixture of sand, water, clay and a type of natural heavy oil called "bitumen." Once the bitumen is recovered and processed to separate it from the sand and water and upgraded, SCO is produced. Oil sands may be extracted by surface mining where it is moved by trucks to a cleaning facility or by in–situ processes which use steam, solvents or thermal energy to allow the bitumen to be pumped to the surface. Because bitumen is so viscous, it requires dilution with lighter hydrocarbons, such as condensate, to make it transportable by pipeline.

Condensate is the "heaviest" gas liquid. As producers increase their production of oil sands and heavy oil, there is a growing demand for condensate, as it is used to dilute bitumen. With assets spanning across the crude oil, condensate and NGL value chains, Pembina is uniquely positioned to provide customers with access to condensate via pipeline or rail as well as produced through fractionation.

Pipelines continue to be the most economical and predominant mode of transporting large amounts of crude oil, NGL, condensate, and heavy oil; however, given the extensive rail infrastructure network across North America and the lack of sufficient export pipeline capacity, transporting hydrocarbon products by rail has gained momentum.

# Product Transportation: Feeder Pipeline Systems

Feeder pipeline systems gather petroleum products from producing fields and facilities for transport to regional centres for storage, fractionation, refining and connection to larger pipelines. From these centres, petroleum products are further transported by export pipeline or rail systems either to domestic markets in western or eastern Canada or to markets in the northern United States for end–use, or used as feedstock in refineries or the petrochemical industry. The major operational centre for the Canadian oil and natural gas industry is the Edmonton/Fort Saskatchewan area of Alberta, which is the largest crude oil refining centre in western Canada and a major fractionation and market hub for NGL and related products. In addition, the Edmonton/Fort Saskatchewan area is the hub of the Alberta feeder pipeline network and the starting point of many large Canadian export pipelines.

All of Pembina's pipelines are feeder pipelines or gathering systems. The Conventional Pipelines business collectively transported approximate average revenue volumes of 614 mbpd of crude oil, condensate and NGL products in 2015. The Conventional Pipelines transport the majority of its products to the Edmonton/Fort Saskatchewan, Alberta area, while a smaller amount is delivered to Kamloops, British Columbia and to the Alberta Ethane Gathering System via the Vantage Pipeline from the North Dakota Bakken play. Pembina's oil sands and heavy oil pipelines had a combined contracted capacity of 880 mbpd in 2015. These pipelines primarily transport products from established production fields in their respective service areas (the Syncrude Project and the Horizon Project) into the refining and export pipeline centres at Edmonton. The Cheecham Lateral transports SCO from a common pump station on the Syncrude Pipeline and Horizon Pipeline to a terminalling facility located near Cheecham, Alberta, where it is then used as diluent for oil sands projects in the area. The Nipisi Pipeline and Mitsue Pipeline provide diluted heavy oil and diluent transportation for operators in the Pelican Lake and Peace River heavy oil regions of Alberta.

Conventional feeder pipelines and gathering systems generally experience lower volumes during the spring months as a result of reduced drilling primarily due to weight restrictions on roads, producers conducting maintenance on their batteries and gas plant turnarounds. The magnitude and duration of road weight restrictions are dependent upon spring weather conditions. Many battery operators also perform maintenance work on production facilities during the spring months. Road restrictions and battery maintenance can also impact gathering pipeline receipts during the fall months, although the impact on throughput is generally less pronounced than during the spring months.

#### Product Transportation: Export Liquids Pipeline Systems

The export liquids pipelines originating in the Edmonton area are the TransMountain Pipeline and the Enbridge Pipeline. Crude oil and refined products delivered to domestic and export markets on the west coast are transported through the TransMountain Pipeline. Crude oil and refined products delivered to eastern Canada and the northern United States are transported through the Enbridge Pipeline. NGL delivered to eastern Canadian and export markets are transported through the Enbridge Pipeline. The existing Keystone Pipeline and Express Pipeline also export crude oil from Hardisty, Alberta. However, none of Pembina's systems are directly connected to Hardisty.

#### **NGL Overview**

The NGL industry involves the production, storage, transportation and marketing of products that are extracted from natural gas prior to its sale to end-use customers. The profitability of the industry is based on the products extracted being of greater economic value as separate commodities (net of the costs of extraction and transportation) than as components of natural gas.

Natural gas is a mixture of various hydrocarbon components, the most abundant of which is methane. The higher value hydrocarbons, which include ethane ( $C_2$ ), propane ( $C_3$ ), butane ( $C_4$ ) and condensate ( $C_5+$ ), are generally in gaseous form at the pressures and temperatures under which natural gas is gathered and transported. NGL extraction facilities recover certain higher value hydrocarbons, such as ethane, propane, butane and condensate, from natural gas for sale in a liquid form. The significant majority of NGL supply in western Canada is derived from natural gas processing, with the remainder derived from the refining of crude oil.

The NGL value chain begins with the gathering of gas produced from the wellhead and ends at the gas plant. The gas then gets processed through field processing plants and mainline extraction facilities, as well as treated for removal of water, sulphur and other impurities. The value chain culminates with the transportation of NGL mix from the gas plant via pipeline to the fractionation plants where the NGL will be separated into saleable products and marketed to the final NGL customers.

Condensate is produced naturally at the well-head when natural gas is brought to the surface at a gas well. Most condensate is typically separated from natural gas at the field gas plant. It is then either trucked to a connection point on a pipeline, or the natural gas plant may be connected directly into a gathering pipeline system for onward delivery to market.

# NGL Extraction

NGL is recovered at three distinct types of facilities: natural gas field plants, natural gas mainline straddle plants and oil refineries. Field plants process raw natural gas, which is produced from wells in the immediate vicinity, to remove impurities such as water, sulphur and carbon dioxide prior to the delivery of natural gas to the major natural gas pipeline systems. Field plants also remove almost all condensate and as much as 65 percent of propane and 80 percent of butane in order to meet pipeline specifications, leaving ethane and unrecovered NGL in the sales gas. Most western Canadian field plants do not extract ethane but leave it in the natural gas. Once processed, the sales gas is then compressed and delivered to one of the major gas transmission systems in the region. In the Province of Alberta, any residual NGL and ethane in the natural gas is extracted at mainline straddle plants prior to export. Pembina has ownership interests in four of the six mainline Empress straddle plants on the Nova Gas Transmission system and the Younger Extraction plant on the Spectra system.

NGL extraction produces a mixed hydrocarbon product (either ethane-plus or propane-plus), which must be further processed in subsequent steps to separate out the individual products. At most field facilities, only sufficient NGL to make the residual gas marketable is extracted; however, with the addition of deep cut processing facilities such as Pembina's Musreau Deep Cut facility (an example of a field straddle plant) and Pembina's Empress plant (an example of a mainline straddle plant) further NGL extraction is possible to ensure the maximum amount of NGL is recovered. NGL products have historically been priced relative to oil, so this additional level of recovery is dependent on the

relative value between oil and natural gas. As the relative price of oil versus natural gas increases, the economic impetus for this activity is also increased.

## NGL Fractionation

NGL mix extracted at field plants and straddle plants is transported via pipelines, truck or rail to fractionation facilities, which enhance its value by separating the mix into its components: ethane, propane, butane and condensate. Due to size, storage and transportation limitations, fractionation generally does not occur at field plants, but rather at larger, well-connected, centralized locations. NGL mix is moved by truck or pipeline to fractionation facilities. Once fractionated, the products are stored and transported to end markets by pipeline, truck or rail.

# NGL Transportation

The efficient movement of NGL products requires significant infrastructure, including transportation assets (pipelines, trucks, rail cars), storage facilities, and terminals (rail and truck). The safest, most efficient and the lowest-cost means for moving NGL products to markets is by pipeline. The Canadian energy sector has an extensive pipeline network for the transportation of natural gas to field plants and extraction facilities, and NGL to fractionation facilities, petrochemical complexes, underground storage facilities and the consuming customer. Pipelines serve as the main mode of NGL transportation (pre and post fractionation). Additionally, truck and rail also transport NGL, where rail specifically transports component pieces of NGL.

#### NGL Storage

Storage assets offer a number of key strategic advantages, which include: (i) providing the necessary operational buffer between production of NGL (which varies daily depending on gas flows and composition) and their consumption (which can vary from day-to-day and season-to-season depending on market needs); (ii) allowing NGL sellers to store inventory to accommodate outages in NGL fractionation plants; and (iii) exploiting seasonal price differentials that may develop over the course of a year (particularly for propane and butane).

# NGL Marketing

The North American markets for NGL are largely continental in nature, though exports have been increasing, with end uses varying substantially by product from heating and transportation fuels to petrochemical and crude oil refining feed stocks. Ethane is used as feedstock for the petrochemical industry. Propane is the most versatile of the NGL products with uses such as home and commercial heating, crop drying, cooking, motor fuel and petrochemical feedstock. Butane is used primarily in gasoline blending, either directly or in the production of iso-octane and as a diluent for heavy oil. Condensate is used primarily as a diluent to blend with heavy crude oil to decrease viscosity and density, allowing transport in pipelines. In addition, condensate is used as a refinery feedstock in the production of gasoline.

#### Midstream Services for Crude Oil, SCO & NGL

Crude oil, SCO and NGL produced in Canada are transported to market through extensive gathering and transportation systems – feeder pipeline systems and export pipeline systems – discussed above.

Growth in crude oil midstream is largely focused on receipt and delivery terminals, storage and other hub services. Crude oil production ends up being consumed in refineries. Refineries are widely distributed geographically and can be located anywhere along the transportation chain, from the production basin hub locations to mid-point junctions on transmission networks to tidewater where foreign production is able to access North American markets via marine transport. For locations directly connected to Pembina's pipelines, there is a service requirement to manage supply with demand, balancing between the pipeline and the customer. On the receipt side, Pembina's truck terminals are a means for oil, condensate and NGL production, which is not pipeline connected, to secure transportation access to market. With the growth in multi-stage fracturing and production techniques, there is also demand to treat emulsion, oil-water mixtures and waste water, prior to production being ready for sale and accepted into a pipeline.

Where pipelines converge, there is a requirement to manage the product flow between the systems. Historically this has been buffered through tankage downstream of Pembina's operations. There is an internal demand for hub storage which will not only buffer flows for downstream deliveries, but also smooth operation of Pembina's complex batched conventional pipeline network and its oil sands pipelines. As a further service category, with the growth in demand for diluents for heavy oil transportation, there is a new requirement to manage diluents prior to injection into the various diluent delivery pipelines. This demand includes accessing the greatest variety of diluents, meeting diluent quality specifications and storage. To this end, Pembina continues to develop the Canadian Diluent Hub (described in "*General Developments of Pembina*"), which is expected to provide interconnectivity via pipeline and potentially rail to downstream markets and enable Pembina to offer upstream and downstream customers access to merchant storage and other complementary midstream services, and become a diluent platform for servicing the oil sands.

#### DESCRIPTION OF THE CAPITAL STRUCTURE OF PEMBINA

The authorized capital of Pembina consists of an unlimited number of Common Shares, a number of Class A Preferred Shares, issuable in series, not to exceed twenty percent of the number of issued and outstanding Common Shares at the time of issuance of any Class A Preferred Shares, and an unlimited number of Class B Preferred Shares. As of December 31, 2015, there were approximately 373 million Common Shares outstanding, approximately 10 million Common Shares issuable pursuant to outstanding options under the Option Plan, approximately 5 million Common Shares reserved for issuance pursuant to the Series F Convertible Debentures, 10 million Series 1 Class A Preferred Shares outstanding, 6 million Series 3 Class A Preferred Shares outstanding, 10 million Series 5 Class A Preferred Shares outstanding, 10 million Series 9 Class A Preferred Shares outstanding. Subsequent to year end, there were 6.8 million Series 11 Class A Preferred Shares issued on January 15, 2016.

The following is a summary of the rights, privileges, restrictions and conditions attaching to the Common Shares, the Series 1, Series 3, Series 5, Series 7, Series 9 and Series 11 Class A Preferred Shares and the Class B Preferred Shares, as described below.

# **Common Shares**

Holders of Common Shares are entitled to receive notice of and to attend all meetings of Shareholders and to one vote at such meetings for each Common Share held. The holders of the Common Shares are, at the discretion of the Board of Directors and subject to applicable legal restrictions, entitled to receive any dividends declared by the Board of Directors on the Common Shares, and are entitled to share in the remaining property of Pembina upon liquidation, dissolution or winding-up, subject to the rights of the Class A Preferred Shares and Class B Preferred Shares.

Pembina has a shareholder rights plan (the "**Plan**") that was adopted to ensure, to the extent possible, that all Shareholders are treated fairly in connection with any take-over bid for Pembina and to ensure that the Board is provided with sufficient time to evaluate unsolicited take-over bids and to explore and develop alternatives to maximize Shareholder value. The Plan creates a right that attaches to each present and subsequently issued Common Share. Until the Separation Time (as defined in the Plan), which typically occurs at the time of an unsolicited take-over bid, whereby a person acquires or attempts to acquire 20 percent or more of the Common Shares, the rights are not separable from the Common Shares, are not exercisable and no separate rights certificates are issued. Each right entitles the holder, other than the 20 percent acquirer, from and after the separation time and before certain expiration times, to acquire one Common Share at a substantial discount to the market price at the time of exercise. The Board of Directors may waive the application of the Plan in certain circumstances. The Plan was reconfirmed at Pembina's 2013 meeting of Shareholders and must be reconfirmed at every third annual meeting

thereafter. Accordingly, the Plan, with such amendments as the Board of Directors determines to be necessary or advisable, and as may otherwise be required by law, is expected to be placed before Shareholders for approval at Pembina's 2016 annual meeting. A copy of the agreement relating to the current Plan has been filed on Pembina's SEDAR and EDGAR profiles on May 13, 2013 and May 14, 2013, respectively.

## **Class A Preferred Shares**

Subject to certain limitations, the Board may, from time to time, issue Class A Preferred Shares in one or more series and determine for any such series, its designation, number of shares and respective rights, privileges, restrictions and conditions. The Class A Preferred Shares as a class have, among others, the provisions described below.

Each series of Class A Preferred Shares shall rank on parity with every other series of Class A Preferred Shares, and shall have priority over the Common Shares, the Class B Preferred Shares and any other class of shares ranking junior to the Class A Preferred Shares with respect to redemption, the payment of dividends, the return of capital and the distribution of assets in the event of the liquidation, dissolution or winding-up of Pembina. The Class A Preferred Shares of any series may also be given such preferences, not inconsistent with the provisions thereof, over the Common Shares, the Class B Preferred Shares and over any other class of shares ranking junior to the Class A Preferred Shares, as may be determined by the Board.

In the event of the liquidation, dissolution or winding-up of Pembina, if any cumulative dividends or amounts payable on a return of capital in respect of a series of Class A Preferred Shares are not paid in full, the Class A Preferred Shares of all series shall participate rateably in: (a) the amounts that would be payable on such shares if all such dividends were declared at or prior to such time and paid in full; and (b) the amounts that would be payable in respect of the return of capital as if all such amounts were paid in full; provided that if there are insufficient assets to satisfy all such claims, the claims of the holders of the Class A Preferred Shares with respect to repayment of capital shall first be paid and satisfied and any assets remaining shall be applied towards the payment and satisfaction of claims in respect of dividends. After payment to the holders of any series of Class A Preferred Shares of the amount so payable, the holders of such series of Class A Preferred Shares shall not be entitled to share in any further distribution of the property or assets of Pembina in the event of the liquidation, dissolution or winding-up of Pembina.

Holders of any series of Class A Preferred Shares will not be entitled (except as otherwise provided by law and except for meetings of the holders of Class A Preferred Shares or a series thereof) to receive notice of, attend at, or vote at any meeting of shareholders of Pembina, unless the Board shall determine otherwise in the terms of a particular series of Class A Preferred Shares, in which case voting rights shall only be provided in circumstances where Pembina shall have failed to pay a certain number of dividends on such series of Class A Preferred Shares, which determination and number of dividends and any other terms in respect of such voting rights, shall be determined by the Board and set out in the designations, rights, privileges, restrictions and conditions of such series of Class A Preferred Shares are substantially the same. The table below outlines the number of outstanding, and the material provisions of, each of our issued series of Class A Preferred Shares.

Series	Issue Date	Issued and Outstanding	Amount (C\$)	Annual Dividend Rate <sup>(1)</sup>	Redemption and Conversion Option Date <sup>(2)(3)</sup>	Reset Spread <sup>(3)</sup>	Per Share Base Redemption/ Liquidation Value	Right to Convert on a one for one basis <sup>(4)</sup>
1	July 26, 2013	10,000,000	\$250,000,000	\$1.0625	December 1, 2018	2.47%	\$25.00	Series 2
3	October 2, 2013	6,000,000	\$150,000,000	\$1.1750	March 1, 2019	2.60%	\$25.00	Series 4
5	January 16, 2014	10,000,000	\$250,000,000	\$1.2500	June 1, 2019	3.00%	\$25.00	Series 6
7	September 11, 2014	10,000,000	\$250,000,000	\$1.1250	December 1, 2019	2.94%	\$25.00	Series 8
9	April 10, 2015	9,000,000	\$225,000,000	\$1.1875	December 1, 2020	3.91%	\$25.00	Series 10
11	January 15, 2016	6,800,000	\$170,000,000	\$1.4375	March 1, 2021	5.00% <sup>(5)</sup>	\$25.00	Series 12

Notes:

- <sup>(1)</sup> The holder is entitled to receive a fixed, cumulative preferential dividend per year payable quarterly on the 1st day of March, June, September and December, as declared by the Board of Directors.
- (2) The Company may, at its option, redeem all or a portion of an outstanding series of Class A Preferred Shares on the Redemption Option Date and every fifth year thereafter for the Base Redemption Value per share plus all accrued and unpaid dividends.
- <sup>(3)</sup> The dividend rate will reset on the Redemption and Conversion Option Date and every five years thereafter at a rate equal to the sum of the then five-year Government of Canada bond yield plus the applicable Reset Spread noted above.
- (4) A holder has the right, subject to certain conditions, to convert their Class A Preferred Shares into cumulative redeemable Class A Preferred Shares of a specified series on the Conversion Option date and every fifth anniversary thereafter. The even numbered series of Class A Preferred Shares carry the right to receive floating, cumulative preferential dividends at a rate, reset quarterly, equal to the sum of the then 90 day Government of Canada treasury bill rate plus the applicable reset spread.
- (5) The dividend rate will reset on the Redemption and Conversion Option Date and every five years thereafter at a rate equal to the sum of the then five-year Government of Canada bond yield plus the applicable Reset Spread noted above, provided that in any event, the rate for the Series 11 Class A Preferred Shares shall not be less than 5.75 percent.

# **Class B Preferred Shares**

Holders of Class B Preferred Shares are not entitled to receive notice of, to attend or to vote at any meeting of the Shareholders, except as required by law. The Class B Preferred Shares are retractable and redeemable at the option of the holder thereof and Pembina, respectively.

If at any time a holder of Class B Preferred Shares ceases to be, or is not, a direct or indirect wholly owned subsidiary of Pembina, Pembina, with or without knowledge of such event, shall be deemed, without further action or notice, to have automatically redeemed all of the Class B Preferred Shares held by such holder in exchange for the Redemption Amount.

The holders of Class B Preferred Shares shall be entitled to receive, if and when declared by the Board of Directors, preferential non-cumulative dividends and upon the liquidation, dissolution or winding-up of Pembina, the holders of Class B Preferred Shares shall be entitled to receive for each such share, in priority to the holders of Common Shares, the redemption amount as set out in Pembina's articles per share together with all declared but unpaid dividends thereon.

All of the issued Class B Preferred Shares of Pembina were cancelled pursuant to the amalgamation between Pembina and its wholly-owned subsidiary Alberta Oil Sands Pipeline Ltd. on October 1, 2015. There are currently no Class B Preferred Shares outstanding.

#### Premium Dividend<sup>™</sup> and Dividend Reinvestment Plan

Effective January 6, 2016, Pembina amended and restated its DRIP and all associated agreements. Pursuant to the amended and restated DRIP, eligible Pembina shareholders have the opportunity to receive, by reinvesting the cash dividends declared payable by Pembina on their common shares, either (i) additional common shares at a discount of up to five percent to the Average Market Price (as defined in the DRIP), pursuant to the "Dividend Reinvestment Component" of the DRIP, or (ii) a premium cash payment (the "**Premium Dividend™**") equal to 101 percent of the amount of reinvested dividends, pursuant to the "Premium Dividend™ Component" of the DRIP. Until otherwise announced by the Company, the Board of Directors has set the current discount rate at three percent to the Average Market Price. Additional information about the terms and conditions of the DRIP, including eligibility restrictions and withholding taxes can be found at www.pembina.com. Pembina will determine, for each dividend payment date during a period for which the DRIP is not suspended, the amount of new equity or premium cash payments, if any that will be made available under the DRIP on that date.

#### **Convertible Debentures**

#### Series C and Series E Convertible Debentures

On October 13, 2015 (the "**Redemption Date**") Pembina completed the Redemption. In each case, Pembina elected to satisfy the Redemption price through the issuance of Common Shares. An aggregate of 319,273 Common Shares were issued pursuant to the Redemption on the basis of 31 Common Shares issued per \$1,000 principal amount of both the Series C and Series E Convertible Debentures. Accrued interest of \$21.27 per \$1,000 principal amount of Series C Convertible Debentures and \$16.54 per \$1,000 principal amount of the Series E Convertible Debentures was paid in cash. Cash was also paid in lieu of any fractional shares that would have otherwise been issued on conversion or Redemption. Pursuant to the conversion option available to holders of the Series C and Series E Convertible Debentures was prior to the Redemption announcement on August 27, 2015 and October 9, 2015, the last business day prior to the Redemption Date.

Accordingly, as at December 31, 2015, no Series C or Series E Convertible Debentures were outstanding.

# Series F Convertible Debentures

The Series F Convertible Debentures are listed on the TSX under the symbol "PPL.DB.F".

The Series F Convertible Debentures were issued April 29, 2011 in the principal aggregate amount of \$172,500,000. The Series F Convertible Debentures bear interest at an annual rate of 5.75 percent payable semi-annually on June 30 and December 31 and have a maturity date of December 31, 2018. Each Series F Convertible Debenture is convertible into Common Shares at the option of the holder at any time prior to the close of business on December 31, 2017 and the business day immediately preceding the date specified for redemption by Pembina of the Series F Convertible Debentures, at a conversion price of \$29.53 per Common Share, subject to adjustment in certain events. Pembina may, at its option on or after December 31, 2014 and prior to December 31, 2016, elect to redeem the Series F Convertible Debentures in whole or in part, provided that the volume weighted average trading price of the Common Shares on the TSX during the 20 consecutive trading days ending on the fifth trading day preceding the date on which the notice of redemption is given is not less than 125 percent of the conversion price of the Series F Convertible Debentures. On or after December 31, 2016, the Series F Convertible Debentures may be redeemed in whole or in part at the option of Pembina at a price equal to their principal amount plus accrued and unpaid interest. Any accrued unpaid interest will be paid in cash.

As at December 31, 2015, \$149 million principal amount of Series F Convertible Debentures were outstanding.

Pembina retains a cash conversion option on the Series F Convertible Debentures, allowing the Company to pay cash to the converting holder of the debentures in lieu of the holder's entitlement to Common Shares, at the option of the Company.

## **Credit Facilities**

Pembina's credit facilities as at December 31, 2015 consisted of an unsecured \$2.0 billion revolving credit facility due May 31, 2020, which includes a \$750 million accordion feature (the "**Revolving Credit Facility**") and an unsecured operating facility of \$30 million due May 31, 2016 (the "**Operating Credit Facility**", and together with the Revolving Credit Facility, the "**Credit Facilities**"). Borrowings on the Credit Facilities bear interest at prime lending rates plus nil to 1.25 percent or Bankers' Acceptances rates plus 1.00 percent to 2.25 percent. Margins on the Credit Facilities are based on the credit rating of Pembina's senior unsecured debt. There are no repayments due over the term of the Credit Facilities. As at December 31, 2015, Pembina had \$25 million drawn on bank debt and \$26 million in cash, leaving \$2.0 billion of cash and unutilized debt facilities. Pembina also had an additional \$23 million in letters of credit issued in a separate demand letter of credit facility. Subsequent to year end, Pembina used part of the proceeds of its issuance of \$170 million Series 11 Class A Preferred Shares on January 15, 2016 to fully repay the balance on the Credit Facilities.

#### **Medium Term Notes**

Pembina's obligations under its Medium Term Notes and the Medium Term Note Indenture are guaranteed by certain subsidiaries of Pembina. Subject to certain conditions, as noted below, Pembina may redeem each series of Medium Term Notes, either in whole, or in part, upon not less than 30 and not more than 60 days prior notice, at a price equal to the greater of (i) par and (ii) the Canada Yield Price (as defined below), plus, in either case, accrued but unpaid interest, if any, to but excluding the date of redemption. "Canada Yield Price" means, in effect, a price equal to the price of a specific series of Medium Term Notes calculated in accordance with generally accepted financial practice in Canada to provide a yield to maturity equal to the Government of Canada Yield (as defined below) plus the Redemption Premium set forth in the table below. "Government of Canada Yield" means, on any date, in effect, the yield to maturity on such date compounded semi-annually which a non-callable Government of Canada bond would carry if issued, in Canadian dollars in Canada, at 100 percent of its principal amount on such date with a term to maturity equal to the remaining term to maturity of the specified series of Medium Term Notes. The Government of Canada Yield will be the average of the yields determined by two major Canadian investment dealers selected by Pembina. In certain circumstances following a Change of Control (as such term is defined in the Medium Term Note Indenture) and a resulting downgrade in the ratings of the Medium Term Notes to below an investment grade, Pembina will be required to make an offer to repurchase all or, at the option of any holder of Medium Term Notes, any part, at a purchase price payable in cash equal to 101 percent of the aggregate outstanding principal amount thereof plus accrued and unpaid interest, if any, to the date of purchase. After certain dates (as set forth below), holders of the Medium Term Notes, Series 3, 4, 5 and 6 may redeem at a price equal to par, plus accrued but unpaid interest, if any, to but excluding the date of redemption.

The table below outlines the number of outstanding, and the material provisions of, each of our issued series of Medium Term Notes.

Series	Issue Date	Maturity Date	Principal and Outstanding Amount (C\$)	Annual Coupon Rate	Redemption Premium (per annum)
1(1)	March 29, 2011	March 29, 2021	\$250,000,000	4.89%	0.395%
2 <sup>(1)</sup>	October 22, 2012	October 24, 2022	\$450,000,000	3.77%	0.460%
	April 30, 2013		\$200,000,000		
3 <sup>(2)</sup>	February 2, 2015 <sup>(3)</sup>	April 30, 2043	\$150,000,000	4.75%	0.585%
	June 16, 2015 <sup>(3)</sup>		\$100,000,000		
4(4)	April 4, 2014	March 25, 2044	\$600,000,000	4.81%	0.450%
5 <sup>(5)</sup>	February 2, 2015	February 3, 2025	\$450,000,000	3.54%	0.540%
6(6)	June 16, 2015	June 15, 2027	\$500,000,000	4.24%	0.560%

#### Notes:

<sup>(1)</sup> Pembina may redeem its Medium Term Notes, Series 1 and Medium Term Notes, Series 2, at a price equal to the greater of (i) par and (ii) the Canada Yield Price (as defined below), plus, in either case, accrued but unpaid interest, if any, to but excluding the date of redemption.

(2) Pembina may redeem the Medium Term Notes, Series 3, (a) at any time prior to October 30, 2042 at a price equal to the greater of (i) par and (ii) the Canada Yield Price, and (b) at any time on or after October 30, 2042 at a price equal to par, plus, in either case, accrued but unpaid interest, if any, to but excluding the date of redemption.

<sup>(3)</sup> On February 2, 2015 and June 16, 2015, Pembina re-opened its Medium Term Notes, Series 3 for \$150 million and \$100 million principal amounts, respectively.

(4) Pembina may redeem the Medium Term Notes, Series 4, (a) at any time prior to September 25, 2043 at a price equal to the greater of (i) par and (ii) the Canada Yield Price, and (b) at any time on or after September 25, 2043 at a price equal to par, plus, in either case, accrued but unpaid interest, if any, to but excluding the date of redemption.

(5) Pembina may redeem the Medium Term Notes, Series 5, (a) at any time prior to November 3, 2024 at a price equal to the greater of (i) par and (ii) the Canada Yield Price, and (b) at any time on or after November 3, 2024 at a price equal to par, plus, in either case, accrued but unpaid interest, if any, to but excluding the date of redemption.

(6) Pembina may redeem the Medium Term Notes, Series 6, (a) at any time prior to March 15, 2027 at a price equal to the greater of (i) par and (ii) the Canada Yield Price and (b) at any time on or after March 15, 2027 at a price equal to par, plus, in either case, accrued but unpaid interest, if any, to but excluding the date of redemption.

#### **Other Debt**

Other debt at December 31, 2015 included \$267 million in Series D senior unsecured notes bearing interest at 5.91 percent payable semi-annually due November 2019 (the "Series D Senior Notes"); and \$200 million in Series C unsecured notes bearing interest at 5.58 percent payable semi-annually due September 2021 (the "Series C Senior Notes"). The Senior Notes are subject to the maintenance of certain financial ratios.

#### **Credit Ratings**

The following information with respect to Pembina's credit ratings is provided as it relates to Pembina's financing costs and liquidity. Specifically, credit ratings affect Pembina's ability to obtain short-term and long-term financing and impact the cost of such financing. A reduction in the current ratings on Pembina's debt by its rating agencies, particularly a downgrade below investment grade ratings, could adversely affect Pembina's cost of financing and its access to sources of liquidity and capital. In addition, changes in credit ratings may affect Pembina's ability to, and the associated costs of, entering into normal course derivative or hedging transactions. Credit ratings are intended to provide investors with an independent measure of credit quality of any issues of securities. The credit ratings assigned by the rating agencies are not recommendations to purchase, hold or sell the securities nor do the ratings comment on market price or suitability for a particular investor. Any rating may not remain in effect for a given period of time or may be revised or withdrawn entirely by a rating agency in the future if in its judgement circumstances so warrant.

Pembina has paid each of S&P and DBRS (as defined below) their customary fees in connection with the provision of the below ratings. Pembina has not made any payments to S&P or DBRS over the past two years for services unrelated to the provision of such ratings.

#### DBRS Limited

DBRS Limited ("**DBRS**") has assigned a debt rating of "BBB" to each of the Medium Term Notes, Series 1, the Medium Term Notes, Series 2, the Medium Term Notes, Series 3, the Medium Term Notes, Series 4, the Medium Term Notes, Series 5 and the Medium Term Notes, Series 6. DBRS has also rated Pembina's senior unsecured notes 'BBB'.

The BBB rating is the fourth highest of DBRS' ten rating categories for long-term debt, which range from AAA to D. DBRS uses "high" and "low" designations on ratings from AA to C to indicate the relative standing of securities being rated within a particular rating category. The absence of a "high" or "low" designation indicates that a rating is in the middle of the category. The BBB rating indicates that, in DBRS's view, the rated securities are of adequate credit quality. The capacity for the payment of financial obligations is considered acceptable; however the issuer may be vulnerable to future events.

The Series 1 Class A Preferred Shares, Series 3 Class A Preferred Shares, Series 5 Class A Preferred Shares, Series 7 Class A Preferred Shares, Series 9 Class A Preferred Shares and Series 11 Class A Preferred Shares have been rated Pfd-3 by DBRS. DBRS' ratings for preferred shares range from a high of Pfd-1 to a low of D. "High" or "low" grades are used to indicate the relative standing within a rating category. The absence of either a "high" or "low" designation indicates the rating is in the middle of the category. According to the DBRS rating system, preferred shares rated Pfd-3 are of adequate credit quality. While protection of dividends and principal is still considered acceptable, the issuing entity is more susceptible to adverse changes in financial and economic conditions, and there may be other adverse conditions present which detract from debt protection.

When a significant event occurs that directly impacts the credit quality of a particular entity or group of entities, DBRS will attempt to provide an immediate rating opinion. However, if there is uncertainty regarding the outcome of the event, and DBRS is unable to provide an objective, forward-looking opinion in a timely fashion, then the ratings of the issuer will be placed "Under Review."

# Standard & Poor's

Standard & Poor's Rating Services, a division of The McGraw-Hill Companies ("**S&P**") has a long-term corporate credit rating on Pembina of 'BBB'. S&P also has assigned a rating of "BBB" to the Medium Term Notes, Series 1, the Medium Term Notes, Series 2, the Medium Term Notes, Series 3, the Medium Term Notes, Series 4, the Medium Term Notes, Series 5 and the Medium Term Notes, Series 6.

The BBB rating is the fourth highest rating, of S&P's ten rating categories for long-term debt which range from AAA to D. The ratings from AA to CCC may be modified by the addition of a plus (+) or minus (–) sign to show relative standing within the major rating categories. Issues of debt securities rated BBB are judged by S&P to exhibit adequate protection parameters. However, adverse economic conditions or changing circumstances are more likely to lead to a weakened capacity of the obligor to meet its financial commitment on the obligation.

The Series 1 Class A Preferred Shares, Series 3 Class A Preferred Shares, Series 5 Class A Preferred Shares, Series 7 Class A Preferred Shares, Series 9 Class A Preferred Shares and Series 11 Class A Preferred Shares have been rated P-3 (High) by S&P. S&P's ratings for preferred shares range from a high of P-1 to a low of P-5. "High" or "low" grades are used to indicate the relative standing within a rating category. According to the S&P rating system, securities rated P-3 are regarded as having significant speculative characteristics. While such securities will likely have some quality and protective characteristics, these may be outweighed by large uncertainties or major exposures to adverse conditions. An obligation rated P-3 (High) is less vulnerable to non-payment than other speculative issues. However, it faces major ongoing uncertainties or exposure to adverse business, financial or economic conditions which could lead to the obliger's inadequate capacity to meet its financial commitment on the obligation.

These securities ratings are not recommendations to purchase, hold or sell the securities inasmuch as such ratings do not comment as to market price or suitability for a particular investor. There is no assurance that any rating will remain in effect for any given period of time or that any rating will not be revised or withdrawn entirely by a rating agency in the future if, in its judgment, circumstances so warrant.

See "Risk Factors - General Risk Factors - Credit Ratings".

#### DIVIDENDS AND DISTRIBUTIONS

#### **Cash Dividends**

#### **Common Shares**

Pembina pays cash dividends on its Common Shares on a monthly basis to shareholders of record on the 25<sup>th</sup> calendar day of each month (except for the December record date, which is December 31st), if, as and when determined by the Board of Directors. Should the record date fall on a weekend or a statutory holiday, the effective record date will be the previous business day. The dividend payment date is the 15th of the month following the record date. Should the payment date fall on a weekend or on a holiday the business day prior to the weekend or holiday becomes the payment date. The following table sets forth the amount of monthly cash dividends paid by Pembina on its Common Shares in 2013, 2014, 2015 and to date in 2016.

#### **Cash Dividends Per Common Share**

Month of Payment Date	2013	2014	2015	2016
January	\$0.135	\$0.140	\$0.1450	\$0.1525
February	\$0.135	\$0.140	\$0.1450	\$0.1525
March	\$0.135	\$0.140	\$0.1450	\$0.1525 <sup>(4)</sup>
April	\$0.135	\$0.140	\$0.1450	
May	\$0.135	\$0.140	\$0.1450	
June	\$0.135	\$0.145 <sup>(2)</sup>	\$0.1525 <sup>(3)</sup>	
July	\$0.135	\$0.145	\$0.1525	
August	\$0.135	\$0.145	\$0.1525	
September	\$0.140 <sup>(1)</sup>	\$0.145	\$0.1525	
October	\$0.140	\$0.145	\$0.1525	
November	\$0.140	\$0.145	\$0.1525	
December	\$0.140	\$0.145	\$0.1525	
Total	\$1.640	\$1.715	\$1.7925	\$0.4575

#### Notes:

<sup>(1)</sup> On August 9, 2013, Pembina announced an increase to its monthly dividend from \$0.135 to \$0.14.

<sup>(2)</sup> On May 8, 2014, Pembina announced a further increase to its monthly dividend from \$0.14 to \$0.145.

<sup>(3)</sup> On May 5, 2015, Pembina announced an increase to its monthly dividend from \$0.145 to \$0.1525.

<sup>(4)</sup> On February 8, 2016, Pembina announced that the Board of Directors had declared a dividend of \$0.1525 per Common Share to be paid, subject to applicable law, on March 15, 2016 to holders of Common Shares of record on February 25, 2016.

#### **Preferred Shares**

Dividends on each issued series of Class A Preferred Shares are payable on the first day of March, June, September and December of each year, if, as and when declared by the Board. Additional information regarding dividends payable on the Class A Preferred Shares can be found under the heading "*Class A Preferred Shares*" herein. The declaration and payment of any dividend by Pembina is at the discretion of the Board of Directors and will depend on numerous factors, including compliance with applicable laws and the financial performance, debt obligations, working capital requirements and future capital requirements of Pembina and its subsidiaries. See "*Risk Factors*".

The agreements governing Pembina's Credit Facilities provide that if an event of default has occurred under the Credit Facilities, the indebtedness may be accelerated by the lenders, and the ability to pay dividends thereupon ceases. Pembina is restricted from making distributions (including the declaration of dividends) if it is in default under its Credit Facilities (or a default would be expected to occur as a result of such distribution) or if its borrowings exceed its borrowing base threshold.

Quarterly Payment Date	Series 1 <sup>(1)</sup>	Series 3 <sup>(2)</sup>	Series 5 <sup>(3)</sup>	Series 7 <sup>(4)</sup>	Series 9 <sup>(5)</sup>	Series 11	Total
2013							
December 1	\$0.37260	\$0.19320	N/A	N/A	N/A	N/A	\$0.565800
2014							
March 1	\$0.265625	\$0.29375	\$0.1507	N/A	N/A	N/A	\$0.710075
June 1	\$0.265625	\$0.29375	\$0.3125	N/A	N/A	N/A	\$0.871875
September 1	\$0.265625	\$0.29375	\$0.3125	N/A	N/A	N/A	\$0.871875
December 1	\$0.265625	\$0.29375	\$0.3125	\$0.24970	N/A	N/A	\$1.121575
2015							
March 1	\$0.265625	\$0.29375	\$0.3125	\$0.28125	N/A	N/A	\$1.153125
June 1	\$0.265625	\$0.29375	\$0.3125	\$0.28125	N/A	N/A	\$1.153125
September 1	\$0.265625	\$0.29375	\$0.3125	\$0.28125	\$0.468500	N/A	\$1.621625
December 1	\$0.265625	\$0.29375	\$0.3125	\$0.28125	\$0.296875	N/A	\$1.450000
2016							
March 1 <sup>(6)</sup>	\$0.265625	\$0.29375	\$0.3125	\$0.28125	\$0.296875	\$0.1812 <sup>(7)</sup>	\$1.631200

#### **Cash Dividends Per Class A Preferred Share**

#### Notes:

<sup>(1)</sup> The initial dividend on the Series 1 Class A Preferred Shares was paid on December 1, 2013 for the period commencing on the date of issuance (July 26, 2013) up to but excluding December 1, 2013.

<sup>(2)</sup> The initial dividend on the Series 3 Class A Preferred Shares was paid on December 1, 2013 for the period commencing on the date of issuance (October 2, 2013) up to but excluding December 1, 2013.

<sup>(3)</sup> The initial dividend on the Series 5 Class A Preferred Shares was paid on March 1, 2014 for the period commencing on the date of issuance (April 4, 2014) up to but excluding March 1, 2014.

(4) The initial dividend on the Series 7 Class A Preferred Shares was paid on December 1, 2014 for the period commencing on the date of issuance (September 11, 2014) up to but excluding December 1, 2014.

<sup>(5)</sup> The initial dividend on the Series 9 Class A Preferred Shares was paid on September 1, 2015 for the period commencing on the date of issuance (April 10, 2015) up to but excluding September 1, 2015.

<sup>(6)</sup> On January 7, 2016, Pembina announced that the Board of Directors had declared a quarterly dividend of \$0.265625 per Series 1 Class A Preferred Share, \$0.29375 per Series 3 Class A Preferred Share, \$0.3125 per Series 5 Class A Preferred Share, \$0.28125 per Series 7 Class A Preferred Share and \$0.296875 per Series 9 Class A Preferred Share to be paid, subject to applicable law, on March 1, 2016 to holders of record on February 1, 2016.

(7) On January 15, 2016, concurrent with the issuance of the Series 11 Class A Preferred Shares, Pembina announced that the Board of Directors had declared a quarterly dividend of \$0.1812 per Series 11 Class A Preferred Share to be paid, subject to applicable law, on March 1, 2016 to holders of record on February 1, 2016.

# MARKET FOR SECURITIES

The Common Shares are listed and traded on the TSX under the symbol "PPL". The following table sets forth the price range for and trading volume of the Common Shares on the TSX for 2015, as reported by the TSX.

Month	High (\$)	Low (\$)	Close (\$)	Volume
January	43.66	36.16	39.48	24,128,054
February	42.32	37.64	39.98	20,331,714
March	42.28	39.11	40.02	23,333,590
April	43.51	40.00	41.99	13,488,936
May	42.84	39.93	40.09	11,817,727
June	42.24	38.93	40.37	18,348,467
July	40.89	36.67	38.07	16,622,484
August	38.56	30.54	36.50	16,582,075
September	36.18	31.45	32.11	17,813,191
October	36.27	31.50	32.87	19,381,701
November	33.67	30.16	30.65	21,887,116
December	31.52	27.75	30.15	28,003,933

The Common Shares are also listed on the NYSE under the trading symbol "PBA". The following table sets forth the price range for and trading volume of the Common Shares on the NYSE for 2015, as reported by NYSE.

Month	High (US\$)	Low (US\$)	Close (US\$)	Volume
January	37.21	30.00	31.05	7,430,982
February	34.00	29.88	31.90	6,242,815
March	33.92	30.90	31.66	6,249,360
April	36.09	31.56	34.81	5,290,905
May	35.51	31.98	32.24	4,513,213
June	34.13	31.40	32.30	5,031,383
July	32.57	28.21	29.09	6,550,183
August	29.69	23.01	27.75	10,323,173
September	27.46	23.51	24.01	6,762,445
October	28.06	23.76	25.12	7,643,526
November	25.75	22.59	22.92	6,636,016
December	23.59	20.17	21.76	10,418,927

Prior to the Redemption, the Series C Convertible Debentures were listed and traded on the TSX under the symbol "PPL.DB.C". The following table sets forth the price range for and trading volume of the Series C Convertible Debentures on the TSX from January 1, 2015 until the Redemption Date, as reported by the TSX. The Series C Convertible Debentures were delisted from the TSX following the Redemption.

Month	High (\$)	Low (\$)	Close (\$)	Volume
January	146.00	130.00	140.00	45,650
February	145.00	136.00	139.75	22,460
March	148.00	140.00	144.20	3,620
April	154.00	144.00	152.00	4,480
May	148.00	140.00	142.00	5,085
June	147.00	138.00	147.00	5,730
July	142.15	129.00	133.00	2,360
August	134.00	118.80	129.00	24,310
September	126.50	110.36	112.46	211,805
October 1-9	126.25	111.00	124.00	93,740
November	-	-	-	-
December	-	-	-	-

Prior to the Redemption, the Series E Convertible Debentures were listed and traded on the TSX under the symbol "PPL.DB.E". The following table sets forth the price range for and trading volume of the Series E Convertible Debentures on the TSX from January 1, 2015 until the Redemption Date, as reported by the TSX. The Series E Convertible Debentures were delisted from the TSX following the Redemption.

Month	High (\$)	Low (\$)	Close (\$)	Volume
January	159.29	155.00	159.29	280
February	163.93	155.50	160.90	610
March	165.50	159.62	165.50	460
April	168.77	165.50	168.19	1,200
May	168.90	162.45	164.01	1,155
June	162.88	160.00	160.00	850
July	161.41	149.50	152.00	7,155
August	150.00	136.66	145.50	2,320
September	145.20	127.00	128.46	30,996
October 1-9	144.00	127.34	134.00	13,110
November	-	-	-	-
December	-	-	-	-

The Series F Convertible Debentures are listed and traded on the TSX under the symbol "PPL.DB.F". The following table sets forth the price range for and trading volume of the Series F Convertible Debentures on the TSX for 2015, as reported by the TSX.

Month	High (\$)	Low (\$)	Close (\$)	Volume
January	140.00	130.00	136.00	16,680
February	140.00	136.00	137.00	67,910
March	141.32	134.40	138.00	2,030
April	148.50	138.00	148.50	1,610
May	145.00	137.00	137.00	470
June	139.75	133.00	139.75	1,530
July	137.00	126.00	129.50	690
August	129.00	124.00	126.00	630
September	122.56	114.00	114.00	4,670
October	122.59	114.64	117.76	810
November	116.00	113.00	113.20	16,320
December	115.25	108.49	112.00	9,130

The Series 1 Class A Preferred Shares are listed and traded on the TSX under the symbol "PPL.PR.A". The following table sets forth the price range for and trading volume of the Series 1 Class A Preferred Shares on the TSX for 2015, as reported by the TSX.

Month	High (\$)	Low (\$)	Close (\$)	Volume
January	24.56	20.87	21.12	160,081
February	23.77	21.00	21.69	173,741
March	22.21	21.09	21.10	187,269
April	21.40	18.48	21.40	324,230
May	22.50	19.93	20.00	104,567
June	20.35	18.48	18.50	108,284
July	20.05	16.69	17.35	192,395
August	18.15	7.14	16.76	156,957
September	17.29	15.04	15.75	296,267
October	17.70	14.70	17.19	427,659
November	19.98	16.00	16.16	346,449
December	16.95	14.27	16.70	678,951

The Series 3 Class A Preferred Shares are listed and traded on the TSX under the symbol "PPL.PR.C". The following table sets forth the price range for and trading volume of the Series 1 Class A Preferred Shares on the TSX for 2015, as reported by the TSX.

Month	High (\$)	Low (\$)	Close (\$)	Volume
January	25.03	22.25	22.38	74,550
February	24.59	21.60	22.62	125,290
March	23.49	22.72	22.85	108,572
April	22.85	20.20	21.90	145,657
May	23.00	21.25	21.25	81,418
June	21.39	20.51	20.70	93,502
July	20.98	18.80	18.97	69,307
August	18.90	16.71	17.62	82,253
September	18.44	16.20	16.60	179,383
October	19.65	16.24	19.33	181,975
November	21.62	18.12	18.14	187,832
December	18.21	16.09	18.10	217,298

The Series 5 Class A Preferred Shares are listed and posted for trading on the TSX on January 16, 2014 under the symbol "PPL.PR.E". The following table sets forth the price range for and trading volume of the Series 5 Class A Preferred Shares on the TSX for 2015, as reported by the TSX.

Month	High (\$)	Low (\$)	Close (\$)	Volume
January 16-31	25.97	24.01	24.60	142,316
February	25.74	24.40	25.34	215,920
March	25.87	24.65	24.66	353,543
April	24.54	21.88	24.39	359,550
May	25.00	23.50	24.07	149,645
June	24.35	22.81	22.90	177,555
July	23.25	21.22	22.00	251,146
August	21.71	18.75	19.81	185,942
September	21.19	19.10	19.39	391,537
October	21.72	18.00	21.58	291,241
November	23.39	19.61	19.71	216,075
December	20.39	17.96	19.40	385,219

The Series 7 Class A Preferred Shares were listed and posted for trading on the TSX on September 11, 2014 under the symbol "PPL.PR.G". The following table sets forth the price range for and trading volume of the Series 7 Class A Preferred Shares on the TSX for 2015, as reported by the TSX.

Month	High (\$)	Low (\$)	Close (\$)	Volume
January	25.30	23.68	24.25	167,841
February	25.08	24.00	24.00	131,572
March	26.37	23.15	23.30	295,062
April	23.75	20.86	23.64	191,708
May	24.55	22.49	22.78	60,291
June	23.00	21.25	21.25	125,845
July	21.81	19.73	20.50	161,968
August	20.50	17.32	18.72	148,808
September	19.90	18.00	18.17	333,923
October	20.55	16.71	20.54	177,008
November	22.38	18.50	18.50	180,583
December	19.31	16.07	19.30	1,430,350

The Series 9 Class A Preferred Shares were listed and posted for trading on the TSX on April 10, 2015 under the symbol "PPL.PR.I". The following table sets forth the price range for and trading volume of the Series 9 Class A Preferred Shares on the TSX for April 10, 2015 through to December 31, 2015, as reported by the TSX.

Month	High (\$)	Low (\$)	Close (\$)	Volume
April 10-30	24.99	24.25	24.90	1,407,130
May	25.32	24.80	25.00	563,850
June	25.19	24.51	24.70	250,645
July	25.28	22.68	23.80	430,687
August	24.00	21.50	22.50	211,880
September	23.81	21.45	21.49	205,377
October	24.45	21.00	23.80	263,531
November	24.50	22.87	23.24	165,435
December	23.20	19.34	22.09	169,461

# DIRECTORS AND OFFICERS

#### **Directors of Pembina**

The following table sets out the name and residence for each director of Pembina as of the date of this Annual Information Form, the date on which they were appointed as a director of Pembina (or as a trustee of the Fund prior to an internal reorganization in which the directors of Pembina replaced a board of trustees of the Fund as the entity responsible for the governance of the Fund) and their principal occupations during the past five years.

Name and Residence	Date Appointed	Principal Occupation During the Past Five Years
Anne-Marie N. Ainsworth <sup>(2)(4)</sup> Houston, Texas, USA	October 7, 2014	Independent businesswoman since March 2014; prior thereto, President and Chief Executive Officer and a member of the Board of Directors of the general partner of Oiltanking Partners, L.P. (a master limited partnership engaged in independent storage and transportation of crude oil, refined petroleum products and liquefied petroleum gas) and President and Chief Executive Officer of Oiltanking Holding Americas, Inc. from November 2012 to March 2014; prior thereto, Senior Vice President of Refining of Sunoco Inc. from November 2009 to March 2012. Currently member of the board of directors of Archrock, Inc. and Kirby Corporation.
Grant D. Billing <sup>(2)(3)</sup> Calgary, Alberta, Canada	April 2, 2012	Independent businessman since November 2011; prior thereto, Chairman and Chief Executive Officer of Superior Plus Corp. (a propane distribution, specialty chemicals and construction products distribution company) from July 2006 to November 2011 and Executive Chairman since 1998. Currently member of the board of directors of Badger Daylighting Ltd. and Cortex Business Solutions Inc.
Michael H. Dilger Calgary, Alberta, Canada	January 1, 2014	President and Chief Executive Officer of Pembina since January 1, 2014; prior thereto, President and Chief Operating Officer of Pembina from February 2012 until December 31, 2012; prior thereto, Vice President, Chief Operating Officer of Pembina from November 2008 to February 2012.

Name and Residence	Date Appointed	Principal Occupation During the Past Five Years
Randall J. Findlay <sup>(1)(5)(6)(7)(8)(9)</sup> Calgary, Alberta, Canada	March 8, 2007	Corporate director; prior thereto, President of Provident Energy Trust from 2001 to 2006. Currently member of the board of directors of HNZ Group Inc., Superior Plus Corp. and Whitemud Resources Inc.
Lorne B. Gordon <sup>(3)(4)(6)(10)</sup> Calgary, Alberta, Canada	October 24, 1997	Independent businessman; prior thereto, Vice Chairman of Coril Holdings Ltd. (a private investment and holding company) from 2004 to 2006.
David M.B. LeGresley <sup>(2)(5)</sup> Toronto, Ontario, Canada	August 16, 2010	Independent businessman since September 2008; prior thereto, Vice Chairman of National Bank Financial from 2006 to 2008. Currently member of the board of directors of Equitable Group Inc.
Robert B. Michaleski <sup>(4)(6)</sup> Calgary, Alberta, Canada	January 4, 2000	Corporate director; prior thereto, Chief Executive Officer of Pembina from February, 2012 until December 31, 2013; prior thereto, President and Chief Executive Officer of Pembina. Currently member of the board of directors of Essential Energy Services Ltd.
Leslie A. O'Donoghue <sup>(3)(5)</sup> Calgary, Alberta, Canada	December 17, 2008	Executive Vice President, Corporate Development and Strategy and Chief Risk Officer of Agrium Inc. (a retail supplier of agricultural products and services and a producer and marketer of agricultural nutrients and industrial products) since October 30, 2012; prior thereto, Executive Vice President, Operations of Agrium Inc. from April 30, 2011 to October 30, 2012; prior thereto, Chief Legal Officer and Senior Vice President, Business Development of Agrium Inc.
Jeffrey T. Smith <sup>(4)(5)(11)</sup> Calgary, Alberta, Canada	April 2, 2012	Independent businessman. Currently serves on the board of NAL Resources Limited (an oil and gas company).
Gordon J. Kerr <sup>(2)(3)(12)(13)</sup> Calgary, Alberta, Canada	January 15, 2015	Independent businessman since 2013; prior thereto, President and Chief Executive Officer and director of Enerplus Corporation (a North American energy producer) from May 2001 until July 2013.

#### Notes:

- <sup>(1)</sup> Chairman of the Board.
- <sup>(2)</sup> Member of Audit Committee.
- <sup>(3)</sup> Member of Human Resources and Compensation Committee.
- (4) Member of the Health, Safety and Environment Committee.

<sup>(5)</sup> Member of the Governance Committee.

- <sup>(6)</sup> Member of the Major Capital Projects Committee.
- <sup>(7)</sup> Mr. Findlay was a member of the Human Resources and Compensation Committee until February 27, 2015.
- (8) Mr. Findlay was a director of Wellpoint Systems Inc. (a TSX Venture Exchange listed company) from June 2008 until January 31, 2011. Wellpoint Systems Inc. was placed into receivership by two of its lenders on January 31, 2011. Wellpoint Systems Inc. was a company supplying software to the energy industry in Canada, the U.S. and internationally.
- (9) Mr. Findlay was a director of Spyglass Resources Corp. (a TSX listed company) from March 2013 until May 13, 2015. Spyglass Resources Corp. was placed into receivership by a syndicate of its lenders on November 26, 2015. Spyglass Resources Corp. was an intermediate oil and gas exploration and production company.
- <sup>(10)</sup> Mr. Gordon was appointed to the Human Resources and Compensation Committee on February 27, 2015 and stopped being a member of the Audit Committee at that time.
- (11) Mr. Smith was a director of Spyglass Resources Corp. (a TSX listed company) from March 2013 until August 11, 2015. Spyglass Resources Corp. was placed into receivership by a syndicate of its lenders on November 26, 2015. Spyglass Resources Corp. was an intermediate oil and gas exploration and production company.
- <sup>(12)</sup> Mr. Kerr was appointed to the Audit Committee and Human Resources Compensation Committee on February 27, 2015.
- <sup>(13)</sup> Mr. Kerr was a director of Laricina Energy Ltd., a private company, until February 5, 2016. Laricina Energy Ltd. was subject to proceedings under the *Companies Creditors Arrangement Act* in 2015. On February 1, 2016, the proceedings were conditionally discharged.

Shareholders elect the directors of Pembina at each annual meeting of the Shareholders. The directors of Pembina serve until the next annual meeting of the Shareholders or until their successors are duly elected or appointed. All of Pembina's directors are "independent" within the meaning of National Instrument 58–101 – *Disclosure of Corporate Governance Practices*, adopted by the CSA, with the exception of Mr. Dilger, who is President and Chief Executive Officer of Pembina, and Mr. Michaleski, who was the Chief Executive Officer of Pembina until December 31, 2013 (and therefore deemed non-independent until December 31, 2016). In addition, Pembina has adopted Standards for Director Independence which meet or exceed the requirements set out in National Policy 58–201 – *Corporate Governance Guidelines*, National Instrument 52–110 – *Audit Committees*, the SEC rules and regulations, the *Sarbanes-Oxley Act of 2002* and the NYSE rules.

The Board of Directors has five committees, the Audit Committee, the Health, Safety and Environment Committee, the Human Resources and Compensation Committee, the Governance Committee and the Major Capital Projects Committee. Additional information regarding the responsibilities of these committees will be contained in Pembina's information circular for its annual meeting of Shareholders to be held on May 12, 2016.

# **Executive Officers of Pembina**

The following table sets out the name, residence and office held with Pembina for each executive officer of the Company, as well as their principal occupations during the past five years.

Name and Residence	Office with Pembina	Principal Occupation During the Past Five Years
Michael H. Dilger Calgary, Alberta, Canada	President and Chief Executive Officer	President and Chief Executive Officer since January 1, 2014; prior thereto, President and Chief Operating Officer of Pembina since February 15, 2012; prior thereto, Vice President, Chief Operating Officer of Pembina since November 2008.
Paul J. Murphy Calgary, Alberta, Canada	Senior Vice President, Pipeline and Crude Oil Facilities	Senior Vice President, Pipeline and Crude Oil Facilities since September 4, 2013; prior thereto, Vice President, Conventional Pipelines of Pembina since February 14, 2011; prior thereto, Vice President, NGL Extraction of Inter Pipeline Fund since July 2004.
Stuart V. Taylor Calgary, Alberta, Canada	Senior Vice President, NGL and Natural Gas Facilities	Senior Vice President, NGL and Natural Gas Facilities since September 4, 2013; prior thereto, Vice President, Gas Services of Pembina since July 1, 2009.
J. Scott Burrows Calgary, Alberta, Canada	Vice President, Finance and Chief Financial Officer	Vice President, Finance and Chief Financial Officer since January 1, 2015; prior thereto, Vice President, Capital Markets of Pembina since September 2013; prior thereto, Vice President, Corporate Development and Investor Relations since March 2013; prior thereto, Senior Manager, Corporate Development and Planning since January 2012.
Robert M. Jones Calgary, Alberta, Canada	Vice President, Midstream – Crude Oil & Condensate	Vice President, Midstream – Crude Oil & Condensate of Pembina since November 2008.
Andrew Gruszecki Calgary, Alberta, Canada	Vice President, Oil Sands & Heavy Oil	Vice President, Oil Sands & Heavy Oil of Pembina since October 2014; prior thereto, Vice President, Business Development from April 2012 to October 2014; prior thereto, Executive Vice President, Business Development of Provident Energy Ltd. from January 2006 to April 2012.
Robert D. Lock Calgary, Alberta, Canada	Vice President, NGL Midstream	Vice President, NGL Midstream of Pembina since April 2012; prior thereto, Vice President, Supply and Extraction of Provident Energy Ltd. since 2005.

Name and Residence	Office with Pembina	Principal Occupation During the Past Five Years
Jason T. Wiun Calgary, Alberta, Canada	Vice President, Conventional Pipelines	Vice President, Conventional Pipelines of Pembina since January 1, 2014; prior thereto, Vice President, Gas Services since September 2013; prior thereto, Senior Manager, Business Development, Conventional Pipelines since 2011.
Jaret A. Sprott Calgary, Alberta, Canada	Vice President, Gas Services	Vice President, Gas Services of Pembina since January 1, 2015; prior thereto, Senior Manager, Peace River Arch (Alberta Montney), Northern Operating Area of Encana Corporation since March 2013; prior thereto, Senior Manager, Bighorn (Deep Basin Cretaceous) since April 2012.
Debbie A. Sulkers Calgary, Alberta, Canada	Vice President, Corporate Services	Vice President, Corporate Services of Pembina since June 2011; prior thereto, Vice President, Human Resources of SemCAMS ULC (a natural gas gathering and processing company) from October 2006 to April 2011.
Harold K. Andersen Calgary, Alberta, Canada	Vice President, Legal and General Counsel	Vice President, Legal and General Counsel of Pembina since April 1, 2013; prior thereto, General Counsel of Pembina since December 2011; prior thereto, Partner and Associate at Stikeman Elliott LLP (a law firm) from June 2000 to December 2011.
Claudia D'Orazio Calgary, Alberta, Canada	Vice President, Compliance and Risk	Vice President, Compliance and Risk since October 2014; prior thereto, Vice President, Risk, Information Services and Procurement of Pembina since September 2013; prior thereto, Vice President, Risk and Treasurer since April 2012; prior thereto, Corporate Controller since 2006.

As at February 25, 2016, the directors and executive officers of Pembina beneficially owned, or controlled or directed, directly or indirectly, an aggregate of 1,547,029 Common Shares, representing approximately 0.4 percent of the then outstanding Common Shares.

# **Conflict of Interest**

The directors and executive officers named above may be directors or officers of entities which are in competition with or are customers or suppliers of Pembina. As such, these directors or officers of Pembina may encounter conflicts of interest in the administration of their duties with respect to Pembina. See "*Risk Factors – General Risk Factors – Potential Conflicts of Interest*".

#### AUDIT COMMITTEE INFORMATION

#### The Audit Committee's Charter

The Audit Committee Charter is set forth in Appendix "A" to this Annual Information Form.

#### Composition of the Audit Committee and Relevant Education and Experience

Pembina's Audit Committee is comprised of David M.B. LeGresley, as Chairman, Anne-Marie Ainsworth, Gordon J. Kerr and Grant D. Billing each of whom is independent and financially literate within the meaning of National Instrument 52–110 – *Audit Committees* and in accordance with Pembina's Standards for Director Independence available at www.pembina.com. Set forth below are additional details regarding each member of the Audit Committee.

#### David M.B. LeGresley

David M.B. LeGresley is the Chairman of the Audit Committee and has been a member of the Audit Committee since April 2, 2012. Mr. LeGresley is independent within the meaning of such term in National Instrument 52-110 – *Audit Committees*, and in accordance with the rules prescribed by the SEC and the NYSE. Mr. LeGresley is a former executive of National Bank Financial and spent 12 years with that company, most recently serving as Vice Chairman from 2006 to 2008. Prior to that assignment he was National Bank Financial's Executive Vice President and Head of Corporate and Investment Banking (1999 to 2006); Managing Director and Head of Vancouver Investment Banking (1998 to 1999); and Managing Director, Investment Banking (1996 to 1998). Mr. LeGresley has extensive experience in the financial services industry including positions at Salomon Brothers Canada from 1990 to 1996 and CIBC Wood Gundy from 1986 to 1990. He also serves as a chairman and director of a TSX-listed company, Equitable Group Inc., as well as one private company, Woodland Biofuels Inc. He is on the advisory committee for CANFAR (the Canadian Foundation for AIDS Research). Mr. LeGresley received a Bachelor of Applied Science Degree in Engineering from the University of Toronto in 1981 and a Master of Business Administration from Harvard Business School in 1986. He is a graduate of the Institute of Corporate Directors – Rotman Directors Education Program and a member of the Institute of Corporate Directors. This business experience provides Mr. LeGresley with the skill set and financial literacy required to carry out his duties as a member of the Audit Committee.

#### Anne-Marie N. Ainsworth

Anne-Marie N. Ainsworth has been a member of the Audit Committee since October 7, 2014. Ms. Ainsworth is independent within the meaning of such term in National Instrument 52-110 – *Audit Committees*, and in accordance with the rules prescribed by the SEC and the NYSE. Ms. Ainsworth currently serves as a member of the board of directors and audit committee of Archrock, Inc. and the board of directors of Kirby Corporation. She has served as President and Chief Executive Officer and a member of the Board of Directors of the general partner of Oiltanking Partners, L.P. and as President and Chief Executive Officer of Oiltanking Holding Americas, Inc. from November 2012 to March 2014. Ms. Ainsworth previously held the position of Senior Vice President of Refining of Sunoco Inc. from November 2009 until March 2012. Prior to joining Sunoco, Ms. Ainsworth was employed by Motiva Enterprises, LLC, where she was the General Manager of the Motiva Norco Refinery in Norco, Louisiana from 2006 to 2009. From 2003 to 2006 Ms. Ainsworth was Director of Management Systems & Process Safety at Shell Oil Products U.S., and from 2000 to 2003 she was Vice President of Technical Assurance at Shell Deer Park Refining Company. Ms. Ainsworth holds a Master of Business Administration degree from Rice University, where she served as an adjunct professor from October 2000 to October 2009, and a Bachelor of Science degree in Chemical Engineering from the University of Toledo. This business experience provides Ms. Ainsworth with the skill set and financial literacy required to carry out her duties as a member of the Audit Committee.

#### Gordon J. Kerr

Mr. Kerr has been a member of the Audit Committee since February 27, 2015. Mr. Kerr is independent within the meaning of such term in National Instrument 52-110 – *Audit Committees*, and in accordance with the rules prescribed by the SEC and the NYSE. Mr. Kerr is a member of the Management Advisory Council of the Haskayne School of Business at the University of Calgary. Mr. Kerr is a former President and Chief Executive Officer of Enerplus Corporation, a position he held from May 2001 until July 2013. He is also a past Chairman of the Canadian Association of Petroleum Producers, a former director of Deer Creek Energy Limited and a past member of the Canadian Council of Chief Executives. Since beginning his career in 1979, he has gained extensive management experience in leadership positions at various oil and gas companies.

Mr. Kerr commenced employment with Enerplus Corporation and its predecessors in 1996, holding positions of increasing responsibility, including the positions of Chief Financial Officer and Executive Vice President. Mr. Kerr graduated from the University of Calgary in 1976 with a Bachelor of Commerce degree. He received a Chartered Accountant designation and was admitted as a member of the Institute of Chartered Accountants of Alberta in 1979 and was later appointed a Fellow of the Institute of Chartered Accountants of Alberta in February 2011. This business experience provides Mr. Kerr with the skill set and financial literacy required to carry out his duties as a member of the Audit Committee.

# Grant D. Billing

Grant D. Billing has been a member of the Audit Committee since April 2, 2012. Mr. Billing is independent within the meaning of such term in National Instrument 52-110 – *Audit Committees*, and in accordance with the rules prescribed by the SEC and the NYSE. Mr. Billing currently serves on the board of directors of Badger Daylighting Ltd. and Cortex Business Solutions Inc. Mr. Billing was the Chairman and Chief Executive Officer of Superior Plus Corp. from 2006 to 2011, and prior thereto the Executive Chairman since 1998. Mr. Billing has extensive strategic and business experience gained over a period of more than 30 years in various CEO/senior management capacities, including as President and CEO of Norcen Energy Resources Ltd. He has served as chairman and director of a number of public companies, as well as the Canadian Association of Petroleum Producers. He holds a Bachelor of Science degree from the University of Calgary. This experience, coupled with his designation as a Chartered Accountant, received in 1976, provide Mr. Billing with the skill set and financial literacy required to carry out his duties as a member of the Audit Committee.

# Pre-Approval Policies and Procedures for Audit and Non-Audit Services

The terms of engagement of Pembina's external auditors provide that audit services provided to Pembina by the external auditors, including the budgeted fees for such audit services and the representations and disclaimer relating thereto, must be pre-approved by the entire Audit Committee.

In connection with the annual audit of Pembina's financial statements, the Audit Committee will review with the external auditor, plans, scope, staffing, engagement terms and proposed fees prior to commencement of the annual audit. The Audit Committee is responsible for the appointment, termination, compensation, retention and oversight of the work of the external auditor engaged by the Company including the review and approval of the terms of the external auditors annual engagement letter and the proposed fees.

The Audit Committee is also responsible for the pre-approval of all non-audit services to be provided by the external auditors considering the potential impact of such services on the independence of the external auditor and, subject to any *de minimis* exemption available under applicable laws. If desired, the Audit Committee may establish detailed policies and procedures for pre-approval of the provision of audit services and permitted non-audit services by the external auditor. The Audit Committee may delegate this ability to one or more members of the Audit Committee to the extent permitted by applicable law, provided that any pre-approvals granted pursuant to any such delegation must be detailed as to the particular service to be provided, may not delegate Audit Committee responsibilities to management of Pembina, and must be reported to the full Audit Committee.

#### **External Auditor Service Fees**

The following table sets out the fees billed to Pembina for professional services provided by KPMG during each of the last two financial years:

YEAR	AUDIT FEES <sup>(1)</sup>	AUDIT-RELATED FEES <sup>(2)</sup>	TAX FEES <sup>(3)</sup>	ALL OTHER FEES <sup>(4)</sup>
2015	\$1,890,550	\$30,000	\$800,769	NIL
2014	\$1,809,000	\$30,000	\$436,305	NIL

Notes:

- (1) Audit fees were for professional services rendered by KPMG for the audit of Pembina's annual financial statements and reviews of Pembina's quarterly financial statements, as well as services provided in connection with statutory and regulatory filings or engagements. In 2015, fees included additional expense for Pembina's base shelf prospectus and prospectus supplements in connection with the offerings of Common Shares, Medium Term Notes, Series 5, 6 and the re-openings of Series 3 and the offering of the Class A Preferred Shares, Series 9, and associated French translations. In addition to the 2015 fees stated above, KPMG billed \$35,000 in 2016 prior to the date hereof, for fees related to Pembina's prospectus supplement in connection with the offering of Class A Preferred Shares, Series 11 and associated French translation. In 2014, fees included additional expense for Pembina's prospectus supplements in connection with the offerings of Medium Term Notes, Series 4, and Class A Preferred Shares, Series 5 and 7, and associated French translations.
- <sup>(2)</sup> Audit-related fees are for assurance and related services reasonably related to the performance of the audit or review of Pembina's financial statements and not reported under "*Audit Fees*" above. 2015 and 2014 fees included audit fees for the pension plan audit.
- (3) Tax fees were for tax compliance, tax advice and tax planning. In addition to the 2015 fees stated above, KPMG billed \$195,373 in 2016 prior to the date hereof. The fees were for services performed by Pembina's auditors' tax division except those tax services related to the audit. 2015 and 2014 (and 2016) fees included general tax consultation and tax compliance fees incurred for preparing and filing the tax returns for Pembina's subsidiaries.
- <sup>(4)</sup> All other fees are fees for products and services provided by Pembina's auditors other than those described as "Audit Fees", "Audit-related Fees" and "Tax Fees".

#### **RISK FACTORS**

The following information is a summary only of certain risk factors relating to Pembina or an investment in securities of Pembina or its subsidiaries and is qualified in its entirety by reference to, and must be read in conjunction with, the detailed information appearing elsewhere in this Annual Information Form. Shareholders and prospective investors should carefully consider these risk factors before investing in Pembina's securities, as each of these risks may negatively affect the trading price of Pembina's securities, the amount of dividends paid to Shareholders and holders of Class A Preferred Shares and the ability of Pembina to fund its debt obligations, including debt obligations under its outstanding Convertible Debentures, Medium Term Notes and any other debt securities that Pembina may issue from time to time.

# Investors should carefully consider the risk factors set out below and consider all other information contained herein and in Pembina's other public filings before making an investment decision.

Pembina's value proposition is based on balancing economic benefit against risk. Where possible, Pembina will reduce risk. Pembina continually works to mitigate the impact of potential risks to its business by identifying all significant risks so that they can be appropriately managed. To assist with identifying risk, Pembina has implemented a comprehensive Risk Management Program.

#### **Risks Inherent in Pembina's Business**

#### **Operational Risks**

Operational risks include: pipeline leaks; the breakdown or failure of equipment, pipelines and facilities, information systems or processes; the compromise of information and control systems; the performance of equipment at levels below those originally intended (whether due to misuse, unexpected degradation or design, construction or

manufacturing defects); spills at truck terminals and hubs; spills associated with the loading and unloading of harmful substances onto rail cars and trucks; failure to maintain adequate supplies of spare parts; operator error; labour disputes; disputes with interconnected facilities and carriers; operational disruptions or apportionment on third-party systems or refineries which may prevent the full utilization of Pembina's facilities and pipelines; and catastrophic events including but not limited to natural disasters, fires, floods, explosions, train derailments, earthquakes, acts of terrorists and saboteurs, and other similar events, many of which are beyond the control of Pembina. Pembina may also be exposed from time to time, to additional operational risks not stated in the immediately preceding sentences. The occurrence or continuance of any of these events could increase the cost of operating Pembina's assets or reduce revenue, thereby impacting earnings. Additionally, Pembina's facilities and pipelines are reliant on electrical power for their operations. A failure or disruption within the local or regional electrical power supply or distribution or transmission systems could significantly affect ongoing operations. Further, a significant increase in the cost of power or fuel could have a materially negative effect on the level of profit realized in cases where the relevant contracts do not provide for recovery of such costs.

Pembina is committed to preserving customer and Shareholder value by proactively managing operational risk through safe and reliable operations. Senior managers are responsible for the daily supervision of operational risk by ensuring appropriate policies, procedures and systems are in place within their business units and internal controls are operating efficiently. Pembina also has an extensive program to manage system integrity, which includes the development and use of in-line inspection tools and various other leak detection technologies. Pembina's maintenance, excavation and repair programs are focused on risk mitigation and, as such, resources are directed to the areas of greatest benefit and infrastructure is replaced or repaired as required. Pembina carries insurance coverage with respect to some, but not all, casualty occurrences in amounts customary for similar business operations, which coverage may not be sufficient to compensate for all casualty occurrences. In addition, Pembina has a comprehensive Corporate Security Management Program designed to reduce security-related risks.

#### Commodity Price Risk

Pembina's Midstream business includes activities related to product storage, terminalling, and hub services. These activities expose Pembina to certain risks including that Pembina may experience volatility in revenue, and impairments related to the book value of stored product, due to fluctuations in commodity prices. Primarily, Pembina enters into contracts to purchase and sell crude and NGL at floating market prices. The prices of products that are marketed by Pembina are subject to volatility as a result of such factors as seasonal demand changes, extreme weather conditions, general economic conditions, changes in crude oil markets and other factors. Pembina manages its risk exposure by balancing purchases and sales to lock-in margins. Notwithstanding Pembina's management of price and quality risk, marketing margins for commodities can vary and have varied significantly from period to period. This variability could have an adverse effect on the results of Pembina's commercial Midstream business and its overall results of operations. To assist in effectively smoothing that variability inherent in this business, Midstream is investing in assets that have a fee-based revenue component, and is looking to expand this area going forward.

The Midstream business is also exposed to possible price declines between the time Pembina purchases NGL feedstock and sells NGL products, and to decreasing frac spreads. Frac spread is the difference between the sale prices of NGL products and the cost of NGL sourced from natural gas and acquired at natural gas related prices. Frac spreads can change significantly from period to period depending on the relationship between crude oil and natural gas prices (the "**frac spread ratio**"), absolute commodity prices, and changes in the Canadian to US dollar foreign exchange rate. There is also a differential between NGL product prices and crude oil prices which can change margins realized for midstream products separate from frac spread ratio changes. The amount of profit or loss made on the extraction portion of the NGL midstream business will generally increase or decrease with frac spreads. This exposure could result in variability of cash flow generated by the NGL midstream business, which could affect Pembina and the cash dividends of Pembina.

Pembina responds to commodity price risk by using an active Risk Management Program to fix revenues to pay for a minimum of 50 percent of the fixed committed term natural gas supply costs. Pembina's fixed committed natural

gas supply can vary from year to year based on industry dynamics. Additionally, Pembina's Midstream business is also exposed to variability in quality, time and location differentials and the Company may also utilize financial derivative instruments as part of its overall risk management strategy to assist in managing the exposure to commodity price risk as a result of these activities. The Company does not trade financial instruments for speculative purposes.

## Reserve Replacement, Throughput and Product Demand

Pembina's Conventional Pipeline tariff revenue is based upon a variety of tolling arrangements, including fee-forservice, cost-of-service agreements and market-based tolls. As a result, certain pipeline tariff revenue is heavily dependent upon throughput levels of crude oil, NGL and condensate. Future throughput on Pembina's crude oil and NGL pipelines and replacement of oil and gas reserves in the service areas will be dependent upon the activities of producers operating in those areas as they relate to exploiting their existing reserve bases and exploring for and developing additional reserves, and technological improvements leading to increased recovery rates. Without reserve additions, or expansion of the service areas, throughput on such pipelines would decline over time as reserves are depleted. As oil and gas reserves are depleted, production costs may increase relative to the value of the remaining reserves in place, causing producers to shut-in production or seek out lower cost alternatives for transportation. If the level of tariffs collected by Pembina decreases as a result, cash flow available for dividends to Shareholders and to service obligations under Pembina's debt securities and Pembina's other debt obligations could be adversely affected.

Over the long-term, Pembina's business will depend, in part, on the level of demand for crude oil, condensate, NGL and natural gas in the markets served by the crude oil and NGL pipelines and gas processing and gathering infrastructure in which Pembina has an interest. Global economic events continue to have a substantial downward effect on the prices of such products and Pembina cannot predict the impact of future economic conditions on the energy and petrochemical industries or future demand for and prices of natural gas, crude oil, condensate and NGL. As lower commodity prices reduce drilling activity, the supply growth that has been fuelling the growth in pipeline infrastructure could slow down. These factors could negatively affect pipeline and processing capacity value as transportation and processing capacity becomes more abundant. Future prices of these products are determined by supply and demand factors, including weather and general economic conditions as well as economic, political and other conditions in other oil and natural gas regions, all of which are beyond Pembina's control.

The volumes of natural gas processed through Pembina's gas processing assets and of NGL and other products transported in its pipelines depend on production of natural gas in the areas serviced by the gas processing business and associated pipelines. Without reserve additions, production will decline over time as reserves are depleted and production costs may rise. Producers may shut-in production at lower product prices or higher production costs. Producers in the areas serviced by the business may not be successful in exploring for and developing additional reserves or achieving technological improvements to increase recovery rates, and the gas plants and the pipelines may not be able to maintain existing volumes of throughput. Commodity prices may not remain at a level which encourages producers to explore for and develop additional reserves or produce existing marginal reserves. Given the ongoing adverse global economic conditions, the prices of these products continue to be depressed and the risks that producers will not seek reserves additions in this environment continues to prevail. Lower production volumes will also increase the competition for natural gas supply at gas processing plants which could result in higher shrinkage premiums being paid to natural gas producers.

The rate and timing of production from proven natural gas reserves tied into the gas plants is at the discretion of the producers and is subject to regulatory constraints. The producers have no obligation to produce natural gas from these lands. Pembina's gas processing assets are connected to various third-party trunk line systems. Operational disruptions or apportionment on those third-party systems may prevent the full utilization of the business.

Over the long-term, Pembina's business will depend, in part, on the level of demand for NGL and natural gas in the geographic areas in which deliveries are made by pipelines and the ability and willingness of shippers having access or rights to utilize the pipelines to supply such demand. Pembina cannot predict the impact of future economic

conditions, fuel conservation measures, alternative fuel requirements, governmental regulation or technological advances in fuel economy and energy generation devices, all of which could reduce the demand for natural gas and NGL.

#### Customer Contracts

Throughput on Pembina's pipelines is or will be governed by transportation contracts or tolling arrangements with various producers of petroleum products. In addition, Pembina is party to numerous contracts of varying durations in respect of its gas gathering, processing and fractionation facilities as well as terminalling and storage services. Any default by counterparties under such contracts or any expiration of such contracts or tolling arrangements without renewal or replacement may have an adverse effect on Pembina's business. Further, some of the contracts associated with the services described above are comprised of a mixture of firm and non-firm contracts and the revenue that Pembina earns on contracts which are based on non-firm or firm without take-or-pay service is dependent on the volume of natural gas, NGL, crude oil and condensate produced by producers in the relevant geographic areas. Accordingly, lower than historical production volumes in these areas (for reasons such as low commodity prices) may have an adverse effect on Pembina's revenue. See "Description of Pembina's Business and Operations — Oil Sands & Heavy Oil Business", "Description of Pembina's Business and Operations — Conventional Pipelines Business", and "Description of Pembina's Business and Operations – Gas Services Business".

#### Reputation

Reputational risk is the potential market or company specific events that could result in the deterioration of Pembina's reputation with key stakeholders. The potential for harming Pembina's corporate reputation exists in every business decision and all risks can have an impact on reputation, which in turn can negatively impact Pembina's business and its securities. Reputational risk cannot be managed in isolation from other forms of risk. Credit, market, operational, insurance, liquidity, regulatory and legal risks, among others, must all be managed effectively to safeguard Pembina's reputation. Pembina's reputation could also be impacted by the actions and activities of other companies operating in the energy industry, particularly other energy infrastructure providers, over which it has no control. In particular, Pembina's reputation could be impacted by negative publicity related to pipeline incidents, unpopular expansion plans or new projects, and due to opposition from organizations opposed to energy, oil sands and pipeline development and particularly with shipment of production from oil sands regions. Negative impacts from a compromised reputation could include revenue loss, reduction in customer base, delays in obtaining regulatory approvals with respect to growth projects, and decreased value of Pembina's securities.

#### Environmental Costs and Liabilities

Pembina's operations, facilities and petroleum product shipments are subject to extensive national, regional and local environmental, health and safety laws and regulations governing, among other things, discharges to air, land and water, the handling and storage of petroleum products and hazardous materials, waste disposal, the protection of employee health, safety and the environment, and the investigation and remediation of contamination. Pembina's facilities could experience incidents, malfunctions or other unplanned events that result in spills or emissions in excess of permitted levels and result in personal injury, fines, penalties or other sanctions and property damage. Pembina could also incur liability in the future for environmental contamination associated with past and present activities and properties. The facilities and pipelines must maintain a number of environmental and other permits from various governmental authorities in order to operate, and these facilities are subject to inspection from time to time. Failure to maintain compliance with these requirements could result in operational interruptions, fines or penalties, or the need to install potentially costly pollution control technology. Licenses and permits must be renewed from time to time and there is no guarantee that a license or permit will be renewed on the same or similar conditions. There can be no assurance that Pembina will be able to obtain all of the licenses, permits, registrations, approvals and authorizations that may be required to conduct operations that it may wish to undertake. Further, if at any time regulatory authorities deem any one of Pembina's pipelines or facilities unsafe or not in compliance with applicable laws, they may order it to be shut down.

While Pembina believes its current operations are in compliance with all applicable significant environmental and safety regulations, there can be no assurance that substantial costs or liabilities will not be incurred. Moreover, it is possible that other developments, such as increasingly strict environmental and safety laws, regulations and enforcement policies thereunder, claims for damages to persons or property resulting from Pembina's operations, and the discovery of pre-existing environmental liabilities in relation to any of Pembina's existing or future properties or operations, could result in significant costs and liabilities to Pembina. In addition, the costs of environmental liabilities in relation to spill sites of which Pembina is currently aware could be greater than Pembina currently anticipates, and any such differences could be substantial. If Pembina is not able to recover the resulting costs or increased costs through insurance or increased tariffs, cash flow available to pay dividends to Shareholders and to service obligations under Pembina's debt securities and Pembina's other debt obligations could be adversely affected.

While Pembina maintains insurance in respect of damage caused by seepage or pollution in an amount it considers prudent and in accordance with industry standards, certain provisions of such insurance may limit the availability thereof in respect of certain occurrences unless they are discovered within fixed time periods, which typically range from 72 hours to 30 days. Although Pembina believes it has adequate leak detection systems in place to monitor a significant spill of product, if Pembina is unaware of a problem or is unable to locate the problem within the relevant time period, insurance coverage may lapse and not be available.

#### Abandonment Costs

Pembina is responsible for compliance with all applicable laws and regulations regarding the abandonment of its pipeline systems and other assets at the end of their economic life, and these abandonment costs may be substantial.

The proceeds of the disposition of certain assets, including in respect of certain pipeline systems and line fill, may be available to offset abandonment costs. While Pembina estimates future abandonment costs, actual costs may differ. Pembina may, in the future, determine it prudent or be required by applicable laws or regulations to establish and fund additional reclamation funds to provide for payment of future abandonment costs. Such reserves could decrease cash flow available for dividends to Shareholders and to service obligations under Pembina's debt securities and Pembina's other debt obligations.

Pembina has complied with the NEB requirements on its NEB-regulated pipelines for the creation of abandonment funds and has completed the compliance-based filings that are required under the applicable NEB rules and regulations regarding the abandonment of its pipeline systems and assets. Pembina also has a 50 percent ownership in an NEB-regulated pipeline lateral which is operated by a joint venture partner. The joint venture partner is responsible for the submission of the NEB-compliance based filings for this asset, which Pembina is in the process of reviewing. Pembina will continue to monitor any regulatory changes prior to the next five-year review, and will complete the annual reporting as required by the NEB. Pembina owned and/or operated rate-regulated pipelines account for 841 km of the total infrastructure in the Conventional Pipelines business.

# Completion and Timing of Expansion Projects

The successful completion of Pembina's growth and expansion projects is dependent on a number of factors outside of Pembina's control, including the impact of general economic, business and market conditions, availability of capital at attractive rates, receipt of regulatory approvals, reaching long-term commercial arrangements with customers in respect of certain portions of the expansions, construction schedules and costs that may change depending on supply, demand and/or inflation, labour, materials and equipment availability, contractor nonperformance, weather conditions, and cost of engineering services. There is no certainty, nor can Pembina provide any assurance, that necessary regulatory approvals will be received on terms that maintain the expected return on investment associated with a specific projects, or at all, or that satisfactory commercial arrangements with customers will be reached where needed on a timely basis or at all, or that third parties will comply with contractual obligations in a timely manner. Factors such as special interest group opposition, Aboriginal, landowner and other stakeholder consultation requirements, changes in shipper support over time, and changes to the legislative or regulatory framework could all have an impact on contractual and regulatory milestones being accomplished. As a result, the cost estimates and completion dates for Pembina's major projects can change during different stages of the project. Early stage projects face additional challenges including securing leases, easements, rights-of-way, permits and/or licenses from landowners or governmental authorities allowing access for such purposes, as well as Aboriginal consultation requirements. Accordingly, actual costs and timing estimates may vary from initial estimates and these differences can be significant, and certain projects may not proceed as planned, or at all. Further, there is a risk that maintenance will be required more often than currently planned or that significant maintenance capital projects could arise that were not previously anticipated.

Under most of Pembina's construction and operation agreements, the Company is obligated to construct the facilities regardless of delays and cost increases and Pembina bears the risk for any cost overruns, and future agreements with customers entered into with respect to expansions may contain similar conditions. While Pembina is not currently aware of any significant undisclosed cost overruns at the date hereof, any such cost overruns in the future may adversely affect the economics of particular projects, as well as Pembina's business operations and financial results, and could reduce Pembina's expected return on investment which, in turn, could reduce the level of cash available for dividends and to service obligations under Pembina's debt securities and other debt obligations. See "General Risk Factors – Additional Financing and Capital Resources" and "Shipper and Processing Contracts" below.

# **Operating and Capital Costs**

Operating and capital costs of Pembina's business may vary considerably from current and forecast values and rates and represent significant components of the cost of providing service. In general, as equipment ages, costs associated with such equipment may increase over time. Dividends may be reduced if significant increases in operating or capital costs are incurred and this may also impact the ability of Pembina to service obligations under its debt securities and other debt obligations.

Although operating costs are to be recaptured through the tariffs charged on natural gas volumes processed and oil and NGL transported, respectively, to the extent such charges escalate, producers may seek lower cost alternatives or stop production of their natural gas and/or crude oil.

# Possible Failure to Realize Anticipated Benefits of Corporate Strategy

Pembina evaluates the value proposition for expansion projects, new acquisitions or divestitures on an ongoing basis. Planning and investment analysis is highly dependent on accurate forecasting assumptions and to the extent that these assumptions do not materialize, financial performance may be lower or more volatile than expected. Volatility in the economy, change in cost estimates, project scoping and risk assessment could result in a loss in profits for Pembina. Large scale acquisitions in particular may involve significant pricing and integration risk. As part of its ongoing strategy, Pembina may complete acquisitions of assets or other entities in the future. Achieving the benefits of completed and future acquisitions depends in part on successfully consolidating functions and integrating operations, procedures and personnel in a timely and efficient manner, as well as Pembina's ability to realize the anticipated growth opportunities and synergies from combining the acquired businesses and operations with those of Pembina. The integration of acquired businesses and entities requires the dedication of substantial management effort, time and resources which may divert management's focus and resources from other strategic opportunities and from operational matters during this process. The integration process may result in the loss of key employees and the disruption of ongoing business, customer and employee relationships that may adversely affect Pembina's ability to achieve the anticipated benefits of any acquisitions. Acquisitions may also expose Pembina to additional risks, including entry into markets or businesses in which Pembina has little or no direct prior experience, increased credit risks through the assumption of additional debt, costs and contingent liabilities and exposure to liabilities of the acquired business or assets. See "General Risk Factors – Additional Financing and Capital Resources" below.

#### Risks Relating to Crude Oil/NGL by Rail

Pembina's operations include rail loading, offloading and terminalling facilities. Pembina relies on railroads and trucks to distribute its products for customers as well as to transport raw materials to its processing facilities. Costs for environmental damage, damage to property and personal injury in the event of a railway incident involving hydrocarbons have the potential to be significant and liabilities to Pembina are possible. At this time, the *Railway Safety Act* (Canada), which governs the operation of railway equipment, does not contemplate regulatory enforcement proceedings against shippers, but consignors and shippers may be subject to regulatory proceedings under the *Transportation of Dangerous Goods Act* (Canada), which specifies the obligations of shippers to identify and classify dangerous goods, select appropriate equipment and prepare shipping documentation. While the *Canada Transportation Act* was amended in 2015 to preclude railway companies from shifting liability for third party claims to shippers by tariff publication alone, major Canadian railways have adopted standard contract provisions designed to implement such a shift. Under various environmental statutes in both Canada and the United States, Pembina could be held responsible for environmental damage caused by hydrocarbons loaded at its facilities or being carried on its leased rail cars. Pembina partially mitigates this risk by securing insurance coverage.

Railway incidents in Canada and the United States have prompted regulatory bodies to initiate reviews of transportation rules and publish various directives. Regulators in Canada and the United States have begun to phasein more stringent engineering standards for tank cars used to move petroleum products which will require all North American tank cars carrying crude oil or ethanol that do not currently meet these standards to be retrofitted by May 1, 2017, and will require all tank cars carrying flammable liquids to be compliant by May 1, 2025. While most legislative changes apply directly to railway companies, costs associated with retrofitting locomotives and rail cars, implementing safety systems, increased inspection and reporting requirements may be indirectly passed on to Pembina through increased freight rates and car leasing costs. In addition, regulators in Canada and the United States have implemented changes that impose obligations relating to certification of product and equipment procedures and emergency response procedures, directly on consignors and shippers such as Pembina.

In the event that Pembina is ultimately held liable for any damages resulting from its activities relating to transporting crude oil/NGL by rail, for which insurance is not available, or increased costs or obligations are imposed on Pembina as a result of new regulations, this could have an impact on Pembina's business, operations and prospects and could impact earnings and cash flow available to pay dividends and to service obligations under Pembina's debt securities and other debt obligations.

## Competition

Pembina competes with other pipelines, midstream, marketing and gas processing and handling services providers in its service areas as well as other transporters of crude oil and NGL. The introduction of competing transportation alternatives into Pembina's service areas could potentially have the impact of limiting Pembina's ability to adjust tolls as it may deem necessary and result in the reduction of throughput in Pembina's pipelines. Additionally, potential pricing differentials on the components of NGL may result in these components being transported by competing gas pipelines. Pembina believes it is prepared for and determined to meet these existing and potential competitive pressures. Pembina also competes with other businesses for growth and business opportunities, which could impact its ability to grow through acquisitions. See "Conventional Pipelines Business – Competitive Environment", "Gas Services Business – Competitive Environment", "Gas Services Business – Competitive Environment", and "Midstream Business – Competitive Environment".

## Reliance on Principal Customers and Operators

Pembina relies on several significant customers to purchase product from the Midstream business. Certain of Pembina's full-service terminals are operated under joint venture arrangements with third parties. If for any reason these parties were unable to perform their obligations under the various agreements with Pembina, the revenue and dividends of the Company and the operations of the Midstream business could be negatively impacted. See "General Risk Factors – Credit Risk".

### **Risk Factors Relating to the Securities of Pembina**

### Dilution of Shareholders

Pembina is authorized to issue, among other classes of shares, an unlimited number of Common Shares for consideration and on terms and conditions as established by the Board of Directors without the approval of Shareholders in certain instances. The Shareholders will have no pre-emptive rights in connection with such further issuances. Any issuance of Common Shares may have a dilutive effect on existing shareholders.

### Risk Factors Relating to the Activities of Pembina and the Ownership of Securities

The following is a list of certain risk factors relating to the activities of Pembina and the ownership of its securities:

- the level of Pembina's indebtedness from time to time could impair Pembina's ability to obtain additional financing on a timely basis to take advantage of business opportunities that may arise;
- the uncertainty of future dividend payments by Pembina and the level thereof, as Pembina's dividend policy and the funds available for the payment of dividends from time to time will be dependent upon, among other things, operating cash flow generated by Pembina and its subsidiaries, financial requirements for Pembina's operations, the execution of its growth strategy and the satisfaction of solvency tests imposed by the ABCA for the declaration and payment of dividends;
- Pembina may make future acquisitions or may enter into financings or other transactions involving the issuance of securities of Pembina which may be dilutive;
- the inability of Pembina to manage growth effectively, and realize the anticipated growth opportunities from acquisitions and new projects, could have a material adverse impact on its business, operations and prospects; and
- the risk that the market value of the Common Shares may deteriorate materially if Pembina is unable to meet its cash dividend targets or make cash dividends in the future.

## Market Value of Common Shares and Other Securities

Pembina cannot predict at what price the Common Shares, Convertible Debentures, Class A Preferred Shares or other securities issued by Pembina will trade in the future. Common Shares, Convertible Debentures, Class A Preferred Shares and other securities of Pembina will not necessarily trade at values determined solely by reference to the underlying value of Pembina's assets. One of the factors that may influence the market price of such securities is the annual yield on the Common Shares, Class A Preferred Shares and the Convertible Debentures. An increase in market interest rates may lead purchasers of Common Shares, Class A Preferred Shares or Convertible Debentures to demand a higher annual yield and this could adversely affect the market price of the Common Shares, Class A Preferred Shares or Convertible Debentures. In addition, the market price for the Common Shares, Class A Preferred Shares and the Convertible Debentures may be affected by announcements of new developments, changes in Pembina's operating results, failure to meet analysts' expectations, changes in credit ratings, changes in general market conditions, fluctuations in the market for equity or debt securities and numerous other factors beyond the control of Pembina.

Shareholders are encouraged to obtain independent legal, tax and investment advice in their jurisdiction of residence with respect to the holding of Common Shares, Class A Preferred Shares or Convertible Debentures.

#### **General Risk Factors**

#### Additional Financing and Capital Resources

The timing and amount of Pembina's capital expenditures, and the ability of the Company to repay or refinance existing debt as it becomes due, directly affects the amount of cash dividends that Pembina pays. Future acquisitions, expansions of Pembina's assets, and other capital expenditures and the repayment or refinancing of existing debt as it becomes due will be financed from sources such as cash generated from operations, the issuance of additional shares or other securities (including debt securities) of Pembina, and borrowings. Dividends may be reduced, or even eliminated, at times when significant capital or other expenditures are made. There can be no assurance that sufficient capital will be available on terms acceptable to Pembina, or at all, to make additional investments, fund future expansions or make other required capital expenditures. As a result of the ongoing weakness in the global economy, and in particular the commodity-related industry sectors, Pembina may experience restricted access to capital and increased borrowing costs. Although Pembina's business and asset base have not changed materially, the ability of Pembina to raise capital is dependent upon, among other factors, the overall state of capital markets and investor demand for investments in the energy industry and Pembina's securities in particular. To the extent that external sources of capital, including the issuance of additional shares or other securities or the availability of additional credit facilities, become limited or unavailable on favourable terms or at all due to credit market conditions or otherwise, the ability of Pembina to make the necessary capital investments to maintain or expand its operations, to repay outstanding debt and to invest in assets, as the case may be, may be impaired. To the extent Pembina is required to use cash flow to finance capital expenditures or acquisitions or to repay existing debt as it becomes due, the level of dividends payable may be reduced.

### Regulation

Legislation in Alberta and British Columbia exists to ensure that producers have fair and reasonable opportunities to produce, process and market their reserves. In Alberta, the AER and in British Columbia, the BCUC, may, on application and following a hearing (and in Alberta with the approval of the Lieutenant Governor in Council), declare the operator of a pipeline a common carrier of oil or NGL and, as such, must not discriminate between producers who seek access to the pipeline. Producers and shippers may also apply to the regulatory authorities for a review of tariffs, and such tariffs may then be regulated if it is proven that the tariffs are not just and reasonable. Applications by producers to have a pipeline operator declared a common carrier are usually accompanied by an application to have the tariffs set by the regulatory authorities. The extent to which regulatory authorities in such instances can override existing transportation or processing contracts has not been fully decided. The potential for direct regulation of tolls, other than for Pembina's provincially regulated B.C. Pipelines, while considered remote by Pembina, could result in toll levels that are less advantageous to Pembina and could impair the economic operation of such regulated pipeline systems.

In June, 2013, the *Responsible Energy Development Act* ("**REDA**") came into force in Alberta. As a result of REDA, the AER assumed all the powers, duties and functions of the Energy Resource Conservation Board under Alberta's energy enactments. The AER also assumed responsibility for the land-use authorizations and dispositions for energy-related activities under the *Public Lands Act* and for exploration activity for petroleum, natural gas, and other minerals, except metallic and industrial minerals under *Mines and Minerals Act (Part 8)*. In spring of 2014, the *Water Act* and the *Environmental Protection and Enhancement Act* also came under the AER for energy-related activities. The AER is now the primary regulatory body that Pembina deals with related to Alberta-issued energy permits, with some minor exceptions. In 2016, Pembina will continue to monitor for legislative or procedural changes that could impose an administrative or financial burden on the Company as a result of a single regulator.

In 2015, the federal government reaffirmed its commitment to a national climate change plan. In Alberta, the provincial government established a Climate Change Advisory Panel with a mandate to report recommendations to the Minister of the Environment for the development of a new climate change strategy for Alberta. The recommendations included options of a new carbon levy to be applied to all carbon emissions, revisions to the current carbon emission levy emitters and new regulations for the reduction of fugitive and vented gas emissions. Until the government develops regulations, the impact to Pembina's business cannot be fully assessed. Pembina will continue to monitor and assess for material impacts to Pembina's business as regulations and policies are developed.

In 2015, the Government of Alberta also advised that it would renew and update Alberta's Specific Gas Emitter Regulation ("**SGER**") which currently governs carbon emissions. As a result, by 2017 the SGER will require large emitters to reduce their emissions by 20 percent up from the previous 12 percent base levels, and will result in an increase in the price of carbon offset from \$15/tonne of CO<sub>2</sub>e to \$20/tonne of CO<sub>2</sub>e in 2016 and \$30/tonne of CO<sub>2</sub>e in 2017. Pembina currently has no facilities that would trigger SGER; however, SGER may be triggered in the future as planned facilities and facility expansions are placed into service, which may impact Pembina and its customers. The materiality of the impacts to Pembina will depend on the timing of Pembina's expanded operations and the associated production levels, as well as whether the relevant contracts provide for recovery of such carbon offsetting costs.

Similar policy reviews on Climate Change are underway in British Columbia and Ontario. Ontario has indicated that a cap and trade system on carbon emissions will be implemented however, the regulatory framework has not yet been released. Pembina will continue to monitor the regulations and will assess the material impacts to Pembina's operations in those provinces.

In early 2016, the Government of Canada announced changes to the environmental assessment process for resource projects currently under review by the NEB. The changes require greenhouse gas emissions be considered in the evaluation process and that enhanced consultation with First Nations occur. These principles apply to projects currently under Federal environmental assessment until legislated changes can be implemented. The impact on existing third-party projects has been to add up to six months to the project review process. These changes could materially impact the amount of time and capital resources required by Pembina for new pipeline applications or applications for additions to our existing NEB regulated pipelines.

In addition to the regulatory requirements pertaining to the processing and transportation of natural gas, NGL and crude oil, Pembina's business and financial condition could be influenced by federal and foreign legislation affecting, in particular, foreign investment, through legislation such as the *Competition Act* (Canada) and the *Investment Canada Act* (Canada), and their equivalents in foreign jurisdictions.

## Counterparty Credit Risk

Counterparty credit risk represents the financial loss Pembina would experience if a counterparty to a financial instrument or commercial agreement failed to meet its contractual obligations in accordance with the terms and conditions of said agreements with Pembina. Counterparty credit risk arises primarily from Pembina's cash and cash equivalents, trade and other receivables, and from counterparties to its derivative financial instruments.

Pembina continues to closely monitor and reassess the creditworthiness of its counterparties, including financial institutions. This may result in Pembina reducing or mitigating its exposure to certain counterparties where it is deemed warranted and permitted under contractual terms. Pembina manages counterparty credit risk through established credit management techniques, including conducting comprehensive financial and other assessments for all new counterparties and regular reviews of existing counterparties to establish and monitor a counterparty's creditworthiness, setting exposure limits, monitoring exposures against these limits and seeking and obtaining financial assurances where warranted and permitted under contractual terms. Pembina utilizes various sources of financial, credit and business information in assessing the creditworthiness of a counterparty including external credit ratings, where available, and in other cases, detailed financial statement analysis in order to generate an internal credit rating based on quantitative and qualitative factors. The establishment of counterparty exposure limits is governed by a Board-designated counterparty exposure limit matrix which represents the maximum dollar amounts of counterparty exposure by debt rating that can be approved for a counterparty. Pembina continues to closely monitor and reassess the creditworthiness of its counterparties, which has resulted in Pembina reducing or mitigating its exposure to certain counterparties where it was deemed warranted and permitted under contractual terms.

Financial assurances may include guarantees, letters of credit and cash. As at December 31, 2015, Pembina held letters of credit on \$68 million (December 31, 2014: \$41 million) of its receivables balance.

Typically, Pembina has collected its receivables in full and at December 31, 2015, approximately 87 percent were current. Pembina has a general lien and a continuing and first priority security interest in, and a secured charge on, all of a shipper's petroleum in its custody. The risk of non-collection is considered to be low and no impairment of trade and other receivables has been made.

Pembina monitors and manages its concentration of counterparty credit risk on an ongoing basis. Pembina also evaluates counterparty risk from the perspective of future exposure that is created through commercial agreements with existing or new counterparties that support future capital expansion projects. Pembina believes these measures are prudent and allow for effective management of its counterparty credit risk but there is no certainty that they will protect it against all material losses. As part of its ongoing operations, Pembina must balance its market and counterparty credit risks when making business decisions.

## Debt Service

At the end of 2015, Pembina had exposure to floating interest rates on \$25 million in debt, which was subsequently repaid in January 2016. Debt exposure is managed by using derivative financial instruments.

Variations in interest rates and scheduled principal repayments, if required under the terms of Pembina's banking agreements could result in significant changes in the amounts required to be applied to debt service before payment of any dividends. Certain covenants in the Company's agreements with its lenders may also limit payments and dividends paid by Pembina.

Pembina and its subsidiaries are permitted to borrow funds to finance the purchase of pipelines and other energy infrastructure assets, to fund capital expenditures and other financial obligations or expenditures in respect of those assets and for working capital purposes. Amounts paid in respect of interest and principal on debt incurred in respect of those assets reduce the amount of cash flow available for Common Share dividends. Variations in interest rates and scheduled principal repayments for which Pembina may not be able to refinance at favourable rates or at all, could result in significant changes in the amount required to be applied to service debt, which could have detrimental effects on the amount of cash available for Common Share dividends. Pembina, on a consolidated basis, is also required to meet certain financial covenants under the Credit Facilities and is subject to customary restrictions on its operations and activities, including restrictions on the granting of security, incurring indebtedness and the sale of its assets.

The lenders under Pembina's unsecured credit facilities have also been provided with guarantees and subordination agreements. If Pembina becomes unable to pay its debt service charges or otherwise commits an event of default such as bankruptcy, payments to all of the lenders will rank in priority to dividends and payments to holders of Convertible Debentures.

Although Pembina believes the existing Credit Facilities are sufficient for immediate requirements, there can be no assurance that the amount will be adequate for the future financial obligations of Pembina or that additional funds will be able to be obtained on terms favourable to Pembina or at all.

#### Credit Ratings

Rating agencies regularly evaluate Pembina, basing their ratings of its long-term and short-term debt on a number of factors. This includes Pembina's financial strength as well as factors not entirely within its control, including conditions affecting the industry in which Pembina operates generally and the wider state of the economy. There can be no assurance that one or more of Pembina's credit ratings will not be downgraded.

Pembina's borrowing costs and ability to raise funds are directly impacted by its credit ratings. Credit ratings may be important to suppliers or counterparties when they seek to engage in certain transactions. A credit rating downgrade could potentially impair Pembina's ability to enter into arrangements with suppliers or counterparties, to engage in certain transactions, and could limit Pembina's access to private and public credit markets and increase the costs of

borrowing under its existing credit facilities. A downgrade could also limit Pembina's access to debt and preferred share markets and increase its cost of borrowing.

The occurrence of a downgrade in Pembina's credit ratings could adversely affect its ability to execute portions of its business strategy and could have a material adverse effect on its liquidity, results of operations and capital position.

### Changes in Legislation

There can be no assurance that income tax laws, regulatory and environmental laws or policies and government incentive programs relating to the pipeline or oil and natural gas industry, will not be changed in a manner which adversely affects Pembina or its Shareholders or other securityholders.

### Reliance on Management and Labour

Shareholders and other securityholders of Pembina will be dependent on senior management and directors of the Company in respect of the governance, administration and management of all matters relating to Pembina and its operations and administration. The loss of the services of key individuals could have a detrimental effect on Pembina. Further, the costs associated with retaining key individuals could adversely affect Pembina's business opportunities and financial results. There is no assurance that Pembina will continue to attract and retain all personnel necessary for the development and operation of its business.

## Aboriginal Land Claims and Consultation Obligations

Aboriginal peoples have claimed title and rights to a substantial portion of the lands in western Canada. Such claims, if successful, could have a significant adverse effect on Pembina's Canadian operations. Further, the successful assertion of Aboriginal title or other claims could have a significant adverse effect on natural gas production or oil sands development in Alberta, which in turn could have a material adverse effect on Pembina's business and operations, including the volume of natural gas and NGL handled through Pembina's facilities.

Additionally, the federal and provincial governments in Canada have a duty to consult and, where appropriate, accommodate Aboriginal people where the interests of the Aboriginal peoples may be affected by a Crown action or decision. Accordingly, the Crown's duty may result in regulatory approvals being delayed or not being obtained in relation to Pembina's Canadian operations.

### Potential Conflicts of Interest

Shareholders and other securityholders of Pembina are dependent upon senior management and the directors of Pembina for the governance, administration and management of the Company. Certain directors and officers of Pembina may be directors or officers of entities in competition to Pembina and, as such, these directors or officers of Pembina may encounter conflicts of interest in the administration of their duties with respect to Pembina.

### Litigation

Pembina and its various subsidiaries and affiliates are, in the course of their business, subject to lawsuits and other claims. Defence and settlement costs associated with such lawsuits and claims can be substantial, even with respect to lawsuits and claims that have no merit. Due to the inherent uncertainty of the litigation process, the resolution of any particular legal proceeding could have a material adverse effect on the financial position or operating results of Pembina.

### Foreign Exchange Risk

Pembina's commodity-related transactions, rail car lease, Vantage pipeline tariff cash flows and some of its capital expenditure commitments may be subject to currency risk, primarily arising from the denomination of specific earnings, cash flows and expenditure commitments in U.S. dollars. Pembina partially mitigates this risk using an active Risk Management Program to exchange foreign currency for domestic currency at a fixed rate.

### Interest Rate Risk

Pembina has floating interest rate debt which subjects the Company to interest rate risk. Pembina responds to this risk under the active Risk Management Program by entering into financial derivative contracts to fix interest rates.

## Cyber Security

Pembina's infrastructure, technologies and data are becoming increasingly integrated, which creates a risk that failure of one system could lead to failure of another system. The risk of a cyber-attack targeting the industry is also increasing. A breach in the security or failure of the Company's information technology could result in operational outages, delays, damage to assets or the environment, reputational harm, lost profits, lost data and other adverse outcomes. The Company's security strategy focuses on information technology security risk management which includes continuous monitoring, threat detection and an incident response protocol.

#### Health and Safety

The operation of Pembina's business is subject to hazards of gathering, processing, transporting, fractionating, storing and marketing hydrocarbon products, including but not limited to: blowouts; fires; explosions; gaseous leaks; migration of harmful substances; oil spills; corrosion; and acts of vandalism and terrorism. Any of these hazards can interrupt operations, impact Pembina's reputation, cause loss of life or personal injury, result in loss of or damage to equipment, property, information technology systems, related data and control systems, and cause environmental damage that may include polluting water, land or air.

## INTEREST OF MANAGEMENT AND OTHERS IN MATERIAL TRANSACTIONS

To the knowledge of the directors and executive officers of Pembina, none of the directors or executive officers of Pembina, and no person or company that is the direct or indirect beneficial owner of, or who exercises control or direction over, more than 10 percent of the Common Shares, and no associate or affiliate of any of the foregoing, has had any material interest, direct or indirect, in any transaction with Pembina since January 1, 2013 that has materially affected Pembina, or in any proposed transaction that would materially affect Pembina.

#### **MATERIAL CONTRACTS**

No contracts material to Pembina and its subsidiaries were entered into during 2015 or 2016 to date or are currently in effect, other than contracts entered into in the ordinary course of business.

### LEGAL PROCEEDINGS

There are no outstanding legal proceedings, or regulatory actions, penalties or sanctions material to Pembina to which Pembina or any of its direct or indirect subsidiaries is a party or in respect of which any of the properties of Pembina or any of its direct or indirect subsidiaries are subject, nor are there any such proceedings, actions, penalties or sanctions known to be contemplated.

### **REGISTRAR AND TRANSFER AGENT**

The registrar and transfer agent for the Common Shares, the Convertible Debentures, the Medium Term Notes and the Class A Preferred Shares is Computershare Trust Company of Canada, at its principal offices in Calgary, Alberta, Canada and Toronto, Ontario, Canada. The co-transfer agent and registrar for the Common Shares in the U.S. is Computershare Investor Services U.S., at its principal offices in Golden, Colorado, U.S.

## **INTERESTS OF EXPERTS**

KPMG LLP are the auditors of the Company and have confirmed that they are independent with respect to the Company within the meaning of the relevant rules and related interpretations prescribed by the relevant professional bodies in Canada and any applicable legislation or regulations and also that they are independent accountants with respect to the Company under all relevant U.S. professional and regulatory standards.

### ADDITIONAL INFORMATION

Additional information relating to Pembina filed with the Canadian securities commissions and the SEC can be found on Pembina's profile on the SEDAR website at www.sedar.com, the EDGAR website at www.sec.gov, and on Pembina's website at www.pembina.com. Additional information, including directors' and officers' remuneration and indebtedness, principal holders of Pembina's securities and securities authorized for issuance under equity compensation plans, as applicable, is contained in Pembina's information circular for its most recent annual meeting of securityholders that involved the election of directors. Additional financial information relating to Pembina is provided in Pembina's audited consolidated financial statements and MD&A for its most recently completed financial year, which have also been filed on SEDAR and EDGAR.

Any document referred to in this Annual Information Form and described as being filed on SEDAR at www.sedar.com and on EDGAR at www.sec.gov (including those documents referred to as being incorporated by reference in this Annual Information Form) may be obtained free of charge from us by contacting our Investor Relations Department by telephone (toll free 1-855-880-7404) or by email (investor-relations@pembina.com).

# **APPENDIX "A" – AUDIT COMMITTEE CHARTER**

## I. ROLE AND OBJECTIVES

The Audit Committee is a committee of the Board of Directors (the "**Board**") of Pembina Pipeline Corporation (the "**Corporation**") and subject to the rights of holders of the Corporation's shares ("**Shareholders**") and applicable law. The Board has delegated to the Audit Committee certain oversight responsibilities relating to the Corporation's financial statements, the external auditors, the internal audit function, risk management, compliance with legal and regulatory requirements and management information technology, for the Corporation and entities controlled by the Corporation (collectively, "**Pembina**").

The objectives of the Audit Committee are to maintain oversight of:

- (a) the integrity of Pembina's financial statements, the reporting process and internal controls over financial reporting;
- (b) the relationship, reports, qualifications, independence and performance of the external auditor;
- (c) the internal audit function;
- (d) the risk identification, assessment and management program;
- (e) compliance with legal and regulatory requirements;
- (f) management information technology related to financial reporting and financial controls; and
- (g) maintenance of open avenues of communication among management of the Corporation, the external auditors, the internal auditors and the Board.

#### II. MEMBERSHIP AND POLICIES

The Board, based on recommendation from the Governance Committee, will appoint members of the Audit Committee. Each member shall serve until his or her successor is appointed, unless he or she shall resign or be removed by the Board or he or she shall otherwise cease to be a director of the Corporation.

The Audit Committee must be composed of not less than three (3) members of the Board, each of whom must be independent and financially literate pursuant to the Corporation's Standards for Director Independence. In addition, at least one member must be an "audit committee financial expert" within the meaning of that term under the United States Securities Exchange Act of 1934, as amended, and the rules adopted by the United States Securities and Exchange Commission thereunder. The Board Chair, in consultation with the Governance Committee, will select the Chair of the Audit Committee from amongst its members.

The Audit Committee may at any time retain outside financial, legal or other advisors as it determines necessary to carry out its duties, at the expense of Pembina. Pembina shall provide for appropriate funding, as determined by the Audit Committee in its capacity as a committee of the Board, for payment of: (i) compensation to the external auditor for the purpose of preparing or issuing an audit report or performing other audit, review or attest services for Pembina, (ii) compensation to any advisors employed by the Audit Committee, and (iii) ordinary administrative expenses of the Audit Committee that are necessary or appropriate in carrying out its duties.

In discharging its duties under this Charter, the Audit Committee may investigate any matter brought to its attention and will have access to all books, records, facilities and personnel, may conduct meetings or interview any officer or employee, the Corporation's legal counsel, external auditors and consultants, and may invite any such persons to attend any part of any meeting of the Audit Committee.

The Audit Committee has neither the duty nor the responsibility to conduct audit, accounting or legal reviews, or to ensure that the Corporation's financial statements are complete, accurate and in accordance with International Financial Reporting Standards ("**IFRS**") as issued by the International Accounting Standards Board ("**IASB**"); rather, management is responsible for the financial reporting process, internal review process, and the preparation of the

Corporation's financial statements in accordance with IFRS, and the Corporation's external auditor is responsible for auditing those financial statements.

# III. FUNCTIONS

## A. Pembina's Financial Statements, the Reporting Process and Internal Controls Over Financial Reporting

The Audit Committee will meet with management, the internal auditor and the external auditor to review and discuss annual and quarterly financial statements, management's discussion and analyses ("**MD&A**"), the earnings press releases, and other financial disclosures and determine whether to recommend the approval of such documents to the Board.

- (a) In connection with these procedures, the Audit Committee will, as applicable and without limitation, review and discuss with management and the external auditor:
  - the information to be included in the financial statements and financial disclosures which require approval by the Board including Pembina's annual and quarterly financial statements, notes thereto, MD&A and earnings press releases paying particular attention to any use of "pro forma", "adjusted" and "non-GAAP and additional GAAP" information;
  - (ii) any significant financial reporting issues identified during the reporting period;
  - (iii) any change in accounting policies and their impact on the results and the disclosure;
  - (iv) all significant financial reporting issues, key estimates and judgments, significant risks and uncertainties made in connection with the preparation of Pembina's financial statements that may have a material impact to the financial statements;
  - (v) any significant deficiencies identified by management, internal auditors or the external auditor, compensating or mitigating controls and final assessment and impact on disclosure;
  - (vi) significant adjustments identified by the external auditor and assessment of associated internal control deficiencies, as applicable;
  - (vii) any unresolved issues between management and the external auditor that could materially impact the financial statements and other financial disclosures;
  - (viii) any material correspondence with regulators, government agencies, any employee or whistleblower complaints, reports of non-compliance which raise issues regarding the Corporation's financial statements or accounting policies and significant changes in regulations which may have a material impact on the Corporation's financial statements;
  - (ix) any off-balance sheet structures;
  - (x) assess the competencies and performance of employees in the Corporation's internal audit department and identify staffing needs; and
  - (xi) at least annually review issues and matters of concern respecting audits and financial reporting processes, including any illegal acts, that have been identified in the course of the preparation or audit of Pembina's financial statements.
- (b) In connection with the annual audit of Pembina's financial statements, the Audit Committee will review with the external auditor:
  - (i) prior to commencement of the annual audit, plans, scope, staffing, engagement terms and proposed fees;
  - (ii) reports or opinions to be rendered in connection therewith including the external auditor's review or audit findings report including alternative treatments of significant financial information within IFRS that have been discussed with management and associated impacts on disclosure; and
  - (iii) the adequacy of internal controls, any audit problems or difficulties, including:

- (A) any restrictions on the scope of the external auditor's activities or on access to requested information;
- (B) any significant disagreements with management, and management's response (including discussion among management, the external auditor and, as necessary, internal and external legal counsel);
- (C) any litigation, claim or contingency, including tax assessments and claims, that could have a material impact on the financial position of the Corporation; and
- (D) the impact on current or potential future disclosures.

In connection with its review of the annual audited financial statements and quarterly financial statements, the Audit Committee will also review the process for the Chief Executive Officer ("**CEO**") and Chief Financial Officer ("**CFO**") certifications with respect to the financial statements and Pembina's disclosure controls and internal controls, including any significant deficiencies, material weaknesses or changes in those controls. The Audit Committee will review the disclosures made to the Audit Committee by the Corporation's CEO and CFO during their certification process. In particular, the Audit Committee will review with the CEO, CFO, internal auditor and external auditor: (i) all significant deficiencies and material weaknesses in the design or operation of Pembina's internal control over financial reporting that could adversely affect Pembina's ability to record, process, summarize and report financial information required to be disclosed by the Corporation in the reports that it files or submits under applicable securities laws, within the required time periods; and (ii) any fraud, whether or not material, that involves management of Pembina or other employees who have a significant role in Pembina's internal control over financial reporting. In addition, the Audit Committee will review with the CEO, CFO and the internal auditor Pembina's disclosure controls and procedures and at least annually will review management's conclusions about the efficacy of disclosure controls and procedures, including any significant deficiencies or material non-compliance with disclosure controls and procedures.

The Audit Committee will also maintain a Whistleblower Policy, including procedures for the:

- (a) receipt, retention and treatment of complaints received regarding accounting, internal accounting controls or auditing matters; and
- (b) confidential, anonymous submission by employees of concerns regarding questionable accounting or auditing matters.

## B. The External Auditor

The Audit Committee, in its capacity as a committee of the Board, is directly responsible for overseeing the relationship, reports, qualifications, independence and performance of the external auditor and audit services by other registered public accounting firms engaged by the Corporation.

The external auditor will report directly to the Audit Committee. The Audit Committee's appointment of the external auditor is subject to approval by the Shareholders.

With respect to the external auditor, the Audit Committee is responsible for:

- (a) the appointment, termination, compensation, retention and oversight of the work of the external auditor engaged by the Corporation including the review and approval of the terms of the external auditors annual engagement letter and the proposed fees;
- (b) resolution of disagreements or disputes between management and the external auditor regarding financial reporting for audit, review or attestation services;
- (c) pre-approval of all non-audit services to be provided by the external auditors considering the potential impact of such services on the independence of external auditors and, subject to any *de minimis* exemption available under applicable laws. If desired, the Audit Committee may establish detailed policies and procedures for pre-approval of the provision of audit services and permitted non-audit services by the external auditor. The Audit Committee may delegate this ability to one or more members of the Audit Committee to the extent permitted by applicable law, provided that any pre-approvals granted pursuant to

any such delegation must be detailed as to the particular service to be provided, may not delegate Audit Committee responsibilities to management of Pembina, and must be reported to the full Audit Committee;

- (d) obtaining and reviewing, at least annually, a written report by the external auditor describing the external auditor's internal quality-control procedures, any material issues raised by the most recent internal quality-control review, or peer review, of the firm, or by any inquiry or investigation by governmental or professional authorities, within the preceding five years, respecting one or more independent audits carried out by the firm, and any steps taken to deal with any such issues and all relationships between the external auditors and the Corporation;
- (e) review of the external auditor which assesses three key factors of audit quality for the audit committee to consider and assess including: independence, objectivity and professional skepticism; quality of the engagement team; and quality of communications and interactions with the external auditor. A written comprehensive review of the external auditor to be completed at least every five (5) years which will include an:
  - (i) assessment of quality of services and sufficiency of resources provided by the external auditor;
  - (ii) assessment of auditor independence, objectivity and professional skepticism;
  - (iii) assessment of value of services provided by the external auditor;
  - (iv) assessment of written input from external auditor summarizing:
    - (A) background of firm, size, resources, geographical coverage, relevant industry experience, including reputational challenges, systemic audit quality issues identified by Canadian Public Accountability Board ("CPAB") and Public Company Accounting Oversight Board ("PCAOB") in public reports;
    - (B) industry experience of the audit team and plans for training and development of the team;
    - (C) how the external auditor demonstrated objectivity and professional skepticism during the audit;
    - (D) how the firm and team met all criteria for independence including identification of all relationships that the external auditor has with the Corporation and its affiliates and steps taken to address possible institutional threats;
    - (E) involvement of engagement quality control review ("EQCR") partner and significant concerns raised by the EQCR partner;
    - (F) matters raised to national office or specialists during the review;
    - (G) significant disagreements between management and the external auditors and steps taken to resolve;
    - (H) satisfaction with communication and cooperation with management and the Audit Committee; and
    - (I) findings and firm responses to reviews of the Corporation by CPAB and PCAOB;
  - (v) communication of the results of the comprehensive review of the external auditor to the Board and recommending that the Board take appropriate action, in response to the review, as required. It is understood that the Audit Committee may recommend tendering the external auditor engagement at their discretion. It will be at the discretion of the Audit Committee if the incumbent external auditor is invited to participate in the tendering process; and
- (f) setting clear hiring policies for Pembina regarding external auditor partners and employees and former partners and employees of the present and former external auditor of the Corporation (it being understood that a one year grace period must pass from the date any work was completed on a Pembina audit

engagement before an external auditor employee can be considered for contract or employment by the Corporation). Prior approval from the Audit Committee must be received before any external auditor partner, senior manager or manager is offered employment by the Corporation.

# C. The Internal Audit Process

The Audit Committee, in its capacity as a committee of the Board will carry out the following responsibilities with regard to the internal audit function:

- (a) review with management and the head of internal audit the charter, activities, staffing, and organizational structure of internal audit, including the performance of the internal audit function;
- (b) have final authority to review and approve the annual audit plan and all major changes to the plan;
- (c) annually convey its view of the performance of the head of internal audit to the Chief Executive Officer as input into the compensation approval process; (d) ensure there are no unjustified restrictions or limitations, and review and concur in the appointment, replacement, or dismissal of the head of internal audit; and
- (e) on a regular basis, meet separately with the head of internal audit to discuss any matters that the Audit Committee or the head of internal audit believes should be discussed privately.

# D. Risk Management

The Audit Committee shall discuss guidelines and policies to govern the process by which risk assessment and management is undertaken and may develop such guidelines or policies that it deems necessary or desirable, or direct that any such guidelines or policies be developed under its supervision and at least annually, in conjunction with senior management, internal counsel and, as necessary, external counsel and the Corporation's internal and external auditors, review the following:

- (a) the Corporation's method of reviewing significant risks inherent in the Corporation's business, assets, facilities, and strategic directions, including the Corporation's risk management and evaluation process;
- (b) discuss guidelines and policies with respect to risk assessment and risk management, including the Corporation's major financial risk exposures and the steps management has taken to monitor and control such exposures. The audit committee is not required to be the sole body responsible for risk assessment and management, but, as stated above, the committee must discuss guidelines and policies to govern the process by which risk assessment and management is undertaken.
- (c) the Annual Corporate Enterprise Management Risk Assessment and updates thereto and report to the Board thereon;
- (d) the major financial risk exposures and steps management has taken to monitor and manage such exposures;
- (e) the Corporation's annual insurance report including the risk retention philosophy and resulting uninsured exposure, if any, including corporate liability protection programs for directors and officers;
- (f) the loss prevention policies, risk management programs, disaster response and recovery programs, and standards and accountabilities of the Corporation in the context of competitive and operational considerations; and
- (g) other risk management matters from time to time as the Audit Committee may consider appropriate or the Board may specifically direct.

## E. Additional Duties and Responsibilities

The Audit Committee will also:

(a) meet separately with management, the internal auditor, the external auditor and, as is appropriate, internal and external legal counsel and independent advisors in respect of issues not elsewhere listed concerning any other audit, finance or risk matters;

- (b) review the appointment of the CFO and any other key financial executives who are involved in the financial reporting process;
- (c) review the Corporation's information technology practices and developments as they relate to financial reporting;
- (d) from time to time discuss the staffing levels and competencies of the finance team with the External Auditor
- (e) review and reassess the adequacy of the Audit Committee Charter and submit any proposed changes to the Governance Committee for approval;
- (f) review incidents, alleged or otherwise, as reported by management, internal audit, the external auditor, internal or external counsel or otherwise, of fraud, illegal acts or conflicts of interest and establish procedures for receipt, treatment and retention of records of incident investigations;
- (g) facilitate information sharing with other committees of the Board as required to address matters of mutual interest or concern in respect of the Corporation's financial reporting;
- (h) assist board oversight of the integrity of the listed company's financial statements, the listed company's compliance with legal and regulatory requirements, the independent auditor's qualifications and independence, and the performance of the listed company's internal audit function and independent auditors. The Audit Committee should report to the Board activities and recommendations of each Audit Committee meeting and review with the full board any issues that arise with respect to the quality or integrity of the listed company's financial statements, the listed company's compliance with legal or regulatory requirements, the performance and independence of the listed company's independent auditors, or the performance of the internal audit function;
- (i) monitor the funding exposure of the Corporation's pension plan;
- (j) receive and review reports from the Corporate Pension Committee at Pembina and recommend or approve changes as appropriate with respect to risk management of pension assets and liabilities, actuarial valuation as required by statute, the Statement of Investment Policies and Procedures, funding policy and corporate performance for the pension plans; and
- (k) jointly with the Human Resources and Compensation Committee, report on the status of the pension plans to the Board at least annually.

In addition, the Audit Committee will perform such other functions as are assigned by law and the Corporation's bylaws, and on the instructions of the Board.

## IV. MEETINGS

The Audit Committee will meet quarterly, or more frequently at the discretion of the members of the Audit Committee, as circumstances require.

Additionally, the external auditor may call a meeting of the Audit Committee provided the external auditor abides by the notice requirements set forth below.

Notice of each meeting of the Audit Committee will be given to each member and to the internal and external auditors, who are entitled to attend each meeting of the Audit Committee. The notice will:

- (a) be in writing (which may be communicated by fax or email);
- (b) be accompanied by an agenda that states the nature of the business to be transacted at the meeting in reasonable detail;
- (c) to the extent practicable, be accompanied by copies of documentation to be considered at the meeting; and
- (d) be given at least 48 hours preceding the time stipulated for the meeting, unless notice is waived by the Audit Committee members.

A quorum for a meeting of the Audit Committee is a majority of the members present in person, by video conference or telephone.

If the Chair is not present at a meeting of the Audit Committee, a Chair will be selected from among the members present. The Chair will not have a second or deciding vote in the event of an equality of votes.

At each meeting, the Audit Committee will meet "in-camera", without management or internal or external auditors present, and will meet in separate sessions with each of the head of internal audit and the lead partner of the external auditor at least annually.

The Audit Committee may invite others to attend any part of any meeting of the Audit Committee as it deems appropriate. This includes other directors, members of management, any employee, the Corporation's legal counsel, external auditors and consultants.

Minutes will be kept of all meetings of the Audit Committee. The minutes will include copies of all resolutions passed at each meeting, will be maintained with the Corporation's records, and will be available for review by members of the Audit Committee, the Board, and the external auditor.

## V. OTHER MATTERS

# A. Review of Charter

The Audit Committee shall review and reassess the adequacy of this Charter at least annually or otherwise, as it deems appropriate, and propose recommended changes to the Governance Committee.

## B. Reporting

The Audit Committee shall report regularly to the Board about any issues that arise with respect to the quality or integrity of the Corporation's financial statements, the reports, qualifications, independence of the external auditor, the internal audit function, Pembina's compliance with legal or regulatory requirements, Pembina's management information technology with respect to financial reporting matters, risk management and communication between the parties identified above.

# C. Evaluation

The Audit Committee's performance shall be evaluated annually by the Governance Committee and the Board as part of the Board assessment process established by the Governance Committee and the Board.