# Delivering energy responsibly 

August 2020
(()) TC PipeLines, LP

## Solid performance in second quarter 2020

- Adjusted EBITDA of $\$ 110$ million for second quarter
- Solid commercial fundamentals continue to support our regionally-diverse asset portfolio
- Second quarter results benefited from continued strong demand from shippers looking to access valuable markets


## Healthy leverage ratio as debt repayment continues

- Bank leverage ratio approximately 3.9X at June 30, 2020


## Continued strong contracting levels

- Assets largely backed by long-term, take-or-pay contracts
- No material impact to revenues experienced or expected from volatility associated with COVID-19 and commodity prices
- Demand for transportation services continued across our natural gas systems


## Moving forward with organic growth

- Phase III in-service of Portland XPress Project anticipated November 1, 2020
- Phase II in-service of Westbrook XPress Project anticipated November 1, 2021 and Phase III in-service November 1, 2022
- Work continues on our other projects: GTN XPress expected to be fully in-service in November 2023 and Tuscarora XPress expected to be completed in November 2021


## Stable distribution

- Maintained distribution of $\$ 0.65$ per common unit for second quarter

Financial highlights for second quarter 2020

|  | Three months ended 30-Jun |  |
| :---: | :---: | :---: |
|  | 2020 | 2019 |
| Net income | 61 | 57 |
| Net income attributable to controlling interests | 57 | 55 |
| Net income per common unit - basic and diluted ${ }^{(a)}$ | \$0.78 | \$0.75 |
| EBITDA ${ }^{(b)}$ | 103 | 99 |
| Adjusted EBITDA ${ }^{(b)}$ | 110 | 113 |
| Cash distributions paid | (47) | (47) |
| Class B distributions paid | - | - |
| Distributable cash flow ${ }^{(b)}$ | 55 | 70 |
| Cash distributions declared per common unit | \$0.65 | \$0.65 |
| Weighted average common units outstanding (millions) | 71.3 | 71.3 |
| Common units outstanding, end of period (millions) | 71.3 | 71.3 |

 weighted average number of common units outstanding.
 supplemental schedules published as part of our second quarter earnings release.
Cover photo: Two technicians make the rounds at our Farwell Compressor Station in Clare County, Michigan, on the Great Lakes system in 2017.

## TC PipeLines, LP



## Executing organic growth projects



## GTN XPress

- Approximately $\$ 335$ million project, our largest ever organic growth opportunity, consisting of horsepower replacement and other reliability work, together with incremental compression capability at existing stations
- 250,000 Dth/d of firm capacity to be commercially phased into service in two tranches; 100,000 Dth/d anticipated in November of 2022 and 150,000 Dth/d in 2023
- Approximately $75 \%$ of the total capex will be spent for phase I with the remainder for phase II
- Phase I entails the removal of legacy compressors at three stations, replacing them with new, state-of-the-art compression technology
- Detailed engineering work is nearing completion for these like-for-like replacements, which are expected to be inservice by end of year 2021
- Phase II will expand the capacity of the GTN system by approximately 150,000 Dth/day through the addition of a new, high efficiency compressor unit at an existing compressor station, to be in-service by November 2023


## Contractual underpinnings and expected revenue

- The incremental firm capacity is underpinned by fixed negotiated rate contracts for an average term in excess of 30 years and is expected to generate $\sim \$ 25$ million in incremental revenue on an annualized basis when fully in-service
- We expect the Phase I capital (approx. $\$ 250$ million) will earn a reasonable regulated rate of return starting January 1, 2022 in the ordinary course of GTN's next rate reset in line with past experience at GTN


## Tuscarora XPress

- \$13 million expansion project involving additional compression capability at an existing Tuscarora facility
- Will transport approximately 15,000 Dth/day of additional volumes of natural gas when completed in November 2021


## Contractual underpinnings and expected revenue

- The project is $100 \%$ underpinned by a 20 -year contract
- Expected to generate approximately $\$ 2$ million in revenue on an annualized basis when fully in service


## PNGTS Portland XPress and Westbrook XPress

- Proceeding on-time and on-budget
- Phase I of PXP in-service in late 2018, Phase II in November 2019, and Phase III in-service planned for November 2020
- Phase I of Westbrook XPress in-service in November 2019, Phase II planned for November 2021, and Phase III for November 2022
- Project volumes underpinned by fixed negotiated rate contracts with varying terms out to as late as 2042
- Beginning in 2021, PXP expected to generate approximately \$50 million in annual revenue for PNGTS
- Westbrook XPress expected to generate approximately $\$ 35$ million in annual revenue for PNGTS when fully in service


## Pursuing responsible growth



## Iroquois ExC enhances gas deliverability into New York City

- Iroquois working to develop and permit upgrades to its compression facilities
- Responding to increasing demand for cleaner energy from fuel switching and economic growth, this project offers a sensible approach and an orderly transition towards a renewable energy future
- The new project facilities are limited to compression, cooling and noise and emissions reduction mitigation with a total estimated cost of $\$ 250$ million
- The ExC project has the potential to optimize the Iroquois system to meet current and future gas supply needs of utility customers ConEdison and National Grid, while minimizing the environmental impact through compressor enhancements at existing compressor stations along the pipeline system
- If successful, the project's total capacity is expected to be approximately 125,000 Dth/d with an estimated in-service date in November 2023
- In 2019, Iroquois filed an application with FERC to authorize the construction of the project which will be 100 percent underpinned by contracts with 20-year terms
- It remains subject to various regulatory and other approvals


## North Baja XPress connects to new demand

- Potential $\$ 90$ million North Baja expansion project provides the Partnership with the opportunity to benefit from LNG exports
- The project contemplates transporting an additional 495,000 Dth/d of natural gas along North Baja's mainline system and the addition of a single compressor at the existing compressor station in Ehrenberg, Arizona
- In December 2019, North Baja filed an application with FERC to authorize the construction of the project
- Sempra LNG International is the anchor shipper for the project. We anticipate a final investment decision (FID) from Sempra by second half 2020 and, subject to the FID, a potential in-service date as early as November 2022


## Potential incremental Bakken take-away capacity

- Management remains committed to working towards an economical expansion project to provide incremental takeaway capacity out of the Bakken, a potential project that could include bi-directional gas flow on our Bison pipeline


## Financial discipline

## Healthy balance sheet maximizes value over the long term

- Bank leverage ratio targeted in the high 3.0 to low 4.0 times range
- Distribution coverage ratio targeted at approximately 1.3 to 1.4 times
- Self-fund growth - deleveraging program has created liquidity and provided capacity
- No plan to access equity capital markets


## Confident that our high quality assets will generate strong cash flows

- EBITDA derived from stable assets substantially backed by long-term, take-or-pay contracts
- Strong competitive position


## Focusing on project execution

- Visible growth from current organic execution projects on PNGTS, GTN and Tuscarora
- Maintaining annual leverage and coverage metrics within targeted bands during the construction cycle


[^0]Approximately $\$ \mathbf{7 0 0}$ million of growth projects ${ }^{1}$

${ }^{1}$ ' Partnership's pro rata share excluding AFUDC

Healthy financial metrics
1.2x

2020 Q2 Distribution coverage
3.9x

Jun 30/20 Bank leverage ratio


## Strong cash flows from our high quality assets

- EBITDA derived from stable assets substantially backed by long-term, take-or-pay contracts with creditworthy shippers
- Strong competitive position


## Financially disciplined

- Bank leverage ratio targeted in the high 3.0 to low 4.0 times range
- Distribution coverage ratio targeted at approximately 1.3 to 1.4 times
- Investment-grade MLP
- Self-fund growth - no plan to access equity capital markets


## Delivering significant growth across our portfolio

- "Steel-in-the-ground" advantage provides a strong platform for future growth
- Assets highly connected to TC Energy's asset portfolio and benefit from TC Energy projects up and downstream
- Visible growth from current projects on PNGTS, GTN and Tuscarora
- Line of sight to additional organic growth opportunities
- Low-risk, value-creating projects supported by long-term contracts
- Disciplined approach to growth, with near-term opportunities sized and sequenced to meet goal to self-fund


## Providing essential energy services during the COVID-19 pandemic

## Health and safety first

- Business continuity plans enacted across our footprint to allow continued effective operation of our assets and execution of our capital program
- Our services are considered essential or critical in every jurisdiction in which we operate, including our maintenance and construction activities
- Field operations ongoing with only those critical to the safe and reliable operations of our assets permitted on-site


## Impact to our business in second quarter

- No meaningful change in the utilization of our assets beyond those expected with seasonal changes or that are tied to our maintenance activities - we note that revenues from take-or-pay contracts are not impacted by utilization levels
- No material credit issues and no noteworthy contract expirations or non-renewals
- Permitting, engineering and construction activities remain on track, as do our planned capital expenditures
- Too early to determine any long-term impacts on our capital program - continue to monitor the impact of COVID-related safety protocols



## Environmental, Social and Governance commitment



## Safety and reliability are critical priorities

- Pipelines monitored from control centers 24/7/365
- Holistic safety culture and zero-incident target


## Long history of working collaboratively with stakeholders

- Industry-leading community, landowner and workforce engagement
- Active engagement with customers, Indigenous groups, governments and regulators


## Adhere to the highest standards of corporate governance

- Consistent top-tier performance
- Rigorous Board oversight of risk management, including health, safety, sustainability and environment


## Committed to protecting the environment

- Regular communication with landowners along pipeline routes
- Environmental partnerships to conserve natural habitats
- Focusing on emissions-reduction opportunities


## Gas Transmission Northwest (100\% TCP ownership)



## Contracts, customers, and details

## Contract profile

- Substantially fully contracted on commercially available capacity
- About 7 year remaining weighted average contract length, trending to longer average term when GTN XPress contracts come into service
- Currently, about $65 \%$ at max firm rate and $35 \%$ at negotiated rates


## Other details

- Upstream debottlenecking on TC Energy's NGTL system has allowed for additional firm subscription contracts for approximately 710,000 Dth/d with in-service dates between 2016 and 2020
- All of these volumes come with terms of at least 15 years with about half at negotiated rates
- Potential for incremental revenue generation from ambient transport opportunities, as weather effects on demand will drive basis spread between Kingsgate and Malin
- Progressing \$335 million GTN XPress project which includes horsepower replacement, other reliability work, and incremental compression capability at existing sites. The project includes two phases to be in service between 2021 and 2023


## In-service date 1961

## Length

1,377 Miles
Capacity
2.9 Bcf/d

## Primary supply source

Kingsgate interconnect
Primary markets served
Pacific Northwest
Malin interconnect

## Customer profile

- Approximately $50 \%$ of the total contract portfolio is contracted by residential/commercial LDCs and power generators
- Approximately $30 \%$ contracted by marketers
- Approximately $20 \%$ contracted by producers



## Tuscarora Gas Transmission Company (100\% TCP ownership)



## In-service date

1995
Length
305 Miles
Capacity
230 MMcf/d

## Primary supply source

Malin interconnect
Primary markets served
Northeast California
Northwest Nevada

## Contracts, customers, and details

## Contract profile

- Substantially fully contracted through 2020
- Approximately 5 year remaining weighted average contract length
- 100\% at max firm rate


## Customer profile

- Approximately $85 \%$ of the total contract portfolio is contracted by residential/commercial LDCs and power generators
- Approximately $15 \%$ contracted by industrial load and marketers


## Other details

- Serves a stable market with moderate growth potential
- Progressing \$13 million Tuscarora XPress project to increase capacity by approximately 15,000 Dth/d; backed by a 20year contract



## Northern Border Pipeline Company (50\% TCP ownership)



Contracts, customers, and details

## Contract profile

- Fully contracted for 2020
- About $60 \%$ at max firm rate and $40 \%$ at negotiated rates
- Approximately 3 year remaining weighted average contract length, generally with 5 year ROFRs


## Customer profile

- Approximately $70 \%$ of the total contract portfolio is contracted by marketers
- Approximately $20 \%$ contracted by utilities and industrial load
- Approximately $10 \%$ contracted by producers


## In-service date

1982

## Length

1,412 Miles

## Capacity

2.5 Bcf/d

## Primary supply source

Monchy (Port of Morgan) interconnect Williston, Bakken basins

## Primary markets served

Ventura interconnect
Chicago Citygates

## Other details

- WCSB production competes for pipeline capacity with the Bakken basin - Bakken receipts averaged just over 1.3 Bcf/d during Q2 2020
- Potential for incremental revenue generation from ambient transport opportunities as weather effects on demand will drive basis spread between Port of Morgan, Ventura, and Chicago Citygates


## Bison (100\% TCP ownership)



Contracts, customers, and details

## Contract profile

- Contracts through January 2021
- $100 \%$ at negotiated rates


## Customer profile

- Two shippers


## In-service date

 2011
## Length

302 Miles

## Capacity

 407 MMcf/dPrimary supply source

Powder River Basin - Wyoming

## Primary markets served

Ventura interconnect - via NBPL Chicago Citygates - via NBPL

## Other details

- Two former shippers bought out their remaining obligations under contracts representing approximately $64 \%$ of Bison's capacity at the end of 2018 at commercially favorable terms ( $\sim 97$ million lump sum payment) generating further financial capacity for TC PipeLines to pursue future organic growth
- Revenue from contracts representing the remaining approximately $36 \%$ of capacity is locked in on a take-or-pay basis through January 2021
- Business development activities underway to determine the best use for Bison including if the asset can be made bi-directional, re-directed or re-purposed


## Iroquois Gas Transmission System (49.3\% TCP ownership)



## Contracts, customers, and details

## Contract profile

- Highly contracted for 2020 with certain contracts extending through to 2023
- Approximately 3 year remaining weighted average contract length
- About 60\% at max firm rate and $40 \%$ at negotiated rates


## Customer profile

- Approximately $70 \%$ of the total contract portfolio is contracted by residential/commercial LDCs and power generators
- Approximately $20 \%$ contracted by marketers
- Approximately $10 \%$ contracted by producers and industrial load

In-service date
1992
Length
416 Miles
Capacity
1.5 Bcf/d

Primary supply source
Iroquois/Waddington interconnect
Primary markets served
Iroquois Zone 2 interconnect
New York/Long Island, and Connecticut

## Other details

- Discretionary transportation opportunities can generate incremental revenue (short-term firm and interruptible transportation)
- Approximately $10 \%$ of revenues are from discretionary services
- "Last mile" advantage into New York/Long Island means this infrastructure is ideally situated to play a part in oil-to-gas conversions and in achieving improved energy efficiency in an economic fashion
- Iroquois is developing and permitting upgrades to its compression facilities in response to increasing demand for cleaner energy from fuel switching and economic growth. The total capacity of its ExC project is expected to be approximately 125,000 Dth/day with an estimated in-service date in November 2023. The project is underpinned by contracts for 20-year terms


## Portland Natural Gas Transmission System (61.7\% TCP ownership)



## Contracts, customers, and details

## Contract profile

- Highly contracted for 2020
- Currently approximately 18 year remaining weighted average contract length, trending to longer average term when Portland XPress Phase III and Westbrook XPress contracts come into service
- $100 \%$ at negotiated rates


## Customer profile

- $70 \%$ of the total contract portfolio is contracted by residential/commercial LDCs and power generators
- 30\% contracted by marketers and industrial load

In-service date
1999
Length
295 Miles
Capacity 290 MDth/d

Primary supply source<br>East Hereford interconnect

Primary markets served
Dracut interconnect
New England, Vermont, and New Hampshire

## Other details

- When the current expansion projects are completed and in-service, total capacity will be approximately 400,000 Dth/d
- "Steel in the ground" advantage in Northeast U.S.; also serves Atlantic Canada's gas needs


## Great Lakes Gas Transmission (46.4\% TCP ownership)



Contracts, customers, and details

## Contract profile

- Highly contracted for 2020
- Approximately 3 year remaining weighted average contract length
- $55 \%$ at max firm rate and $45 \%$ at negotiated rates


## Other details

- Positioned to capture synergies with TC Energy's natural gas pipelines in Canada and with ANR in the U.S.
- TC Energy's Alberta XPress project, an ANR expansion project, will utilize capacity on Great Lakes to connect growing WCSB supply to U.S. Gulf Coast LNG export markets
- 165,000 Dth/d of long-term, max rate transportation-by-others contract between ANR and Great Lakes for an average contract tenure of 19 years with an anticipated in-service date in 2022
- No material capital spending required
- Contract mix of long-term, short-term as well as both long-haul and short-haul services with long-term contracts including 10 year TC Energy Mainline agreement for 722,000 Dth/d
- Provides access to Ontario markets including Dawn storage
- Gas storage interconnections with total regional storage capacity of roughly 650 Bcf drives most demand in summer seasons


## In-service date 1967

## Length

2,115 Miles

## Capacity

2.4 Bcf/d

# Primary supply source <br> Emerson 2 interconnect 

Primary markets served
Union Dawn interconnect Minnesota, Wisconsin, and Michigan

## Customer profile

- Approximately $75 \%$ of the total contract portfolio is contracted by transportation-by-others with affiliates
- Approximately 5\% contracted by residential/commercial LDCs
- Approximately $20 \%$ contracted by marketers and industrial load



## North Baja (100\% TCP ownership)



## Contracts, customers, and details

## Contract profile

- Highly contracted for 2020
- About 7 year remaining weighted average contract length
- About $95 \%$ at negotiated rates and $5 \%$ at max firm rates


## Customer profile

- Approximately $80 \%$ of the total contract portfolio is contracted by marketers
- Approximately $10 \%$ contracted by industrial load
- Approximately $10 \%$ contracted by utilities


## In-service date

 2002
## Length

86 Miles

## Capacity

600 MMcf/d North

500 MMcf/d South

## Primary supply source

El Paso Pipeline interconnect
Gasoducto pipeline interconnect

## Primary markets served

Southwest California - SoCal LDC

## Other details

- Opportunities to capture incremental revenue generation as 'make-up' transportation is required in the region
- Sources supply from U.S. basins, including low cost Permian region, and well suited to supply LNG exports from Baja Mexico and power plants
- Recently filed FERC application for North Baja XPress; project is subject to positive FID


## MLP of TC Energy Corporation (TSX, NYSE:TRP)



## One of North America's largest natural gas pipeline networks

- 57,500 miles of pipeline
- 653 Bcf of storage capacity
- Transports approximately $25 \%$ of North America's natural gas demand
- 65 year history of safe, reliable operatorship

One of the largest private sector power generators in Canada

- 7 power plants, 4,200 MW

Enterprise value ~ C $\$ 115$ billion

## Premier liquids pipeline system

- 3,000 miles of pipeline
- Transports approximately $20 \%$ of Western Canadian exports


## TC PipeLines, LP Supplemental Schedule

Non-GAAP Measures
Reconciliations of Net income to Distributable Cash Flow

| (unaudited) <br> (millions of dol/ars) | Three months ended June 30, |  | Six months ended June 30, |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2020 | 2019 | 2020 | 2019 |
| Net income | 61 | 57 | 155 | 157 |
| Add: |  |  |  |  |
| Interest expense ${ }^{\text {(a) }}$ | 22 | 22 | 42 | 44 |
| Depreciation and amortization | 19 | 19 | 39 | 39 |
| Income taxes | 1 | 1 | 1 | 1 |
| EBITDA | 103 | 99 | 237 | 241 |
| Less: |  |  |  |  |
| Equity Earnings: |  |  |  |  |
| Northern Border | (13) | (14) | (35) | (35) |
| Great Lakes | (9) | (9) | (29) | (29) |
| Iroquois | (7) | (7) | (20) | (20) |
|  | (29) | (30) | (84) | (84) |
| Add: |  |  |  |  |
| Distributions from equity investments ${ }^{(b)}$ |  |  |  |  |
| Northern Border | 15 | 21 | 42 | 48 |
| Great Lakes | 11 | 9 | 32 | 32 |
| Iroquois ${ }^{(c)}$ | 10 | 14 | 21 | 28 |
|  | 36 | 44 | 95 | 108 |
| Adjusted EBITDA ${ }^{(d)}$ | 110 | 113 | 248 | 265 |
| Less: |  |  |  |  |
| AFUDC equity | (2) | (1) | (3) | (1) |
| Interest expense ${ }^{\text {(a) }}$ | (22) | (22) | (42) | (44) |
| Income taxes | (1) | (1) | (1) | (1) |
| Distributions to non-controlling interest ${ }^{\left({ }^{()}\right.}$ | (5) | (3) | (11) | (10) |
| Maintenance capital expenditures ${ }^{(f)}$ | (24) | (15) | (46) | (21) |
|  | (54) | (42) | (103) | (77) |
| Total Distributable Cash Flow | 56 | 71 | 145 | 188 |
| General Partner distributions declared ${ }^{(9)}$ | (1) | (1) | (2) | (2) |
| Distributions allocable to Class B units ${ }^{(h)}$ | - | - | - | - |
| Distributable Cash Flow | 55 | 70 | 143 | 186 |

a. Interest expense as presented includes net realized loss or gain related to the interest rate swaps
b. Amounts are calculated in accordance with the cash distribution policies of each of our equity investments. Distributions from our equity investments represent our respective share of these entities' quarterly distributable cash for the current reporting period.
c. This amount represents our proportional 49.34 percent share of the distribution declared by our equity investee, Iroquois, for the current reporting period. For the three and six months ended June 30, 2019, the amounts include our 49.34 percent share of the Iroquois unrestricted cash distributions amounting to approximately $\$ 2.6$ million and $\$ 5.2$ million, respectively (three and six months ended June 30, 2020 - none).
d. Beginning in our first quarter results of 2020, we provided Adjusted EBITDA as an additional performance measure of the current operating profitability of our assets and we revised our calculation of Adjusted EBITDA to include distributions from our equity investments, net of equity earnings from our investments as described above, which were previously excluded from such measure. The presentation of Adjusted EBITDA for the three and six months ended June 30, 2019 was recast to conform with the current presentation. The Partnership believes the revised presentation more closely aligns with similar non-GAAP measures presented by our peers and with the Partnership's definitions of such measures.
e. Distributions to non-controlling interests represent the respective share of our consolidated entities' distributable cash from earnings not owned by us for the periods presented.
f. The Partnership's maintenance capita expenditures include cash expenditures made to maintain, over the long term, the operating capacity, system integrity and reliability of our pipeline assets. This amount represents the partnership's and its consolidated subsidiaries' maintenance capital expenditures and does not include the Partnership's share of maintenance capital expenditures for our equity investments. Such amounts are reflected in "Distributions from equity investments" as those amounts are withheld by those entities from their quarterly distributable cash.
g. No incentive distributions were declared to the General Partner for the three and six months ended June 30, 2020 and 2019.
$h$. For the three and six months ended June 30, 2020 and 2019, no distributions were allocated to the Class B units.

## Forward Looking Information and Non-GAAP Measures

This presentation may include forward-looking statements regarding future events and the future financial performance of TC PipeLines, LP. Words such as "believes," "expects," "intends," "forecasts," "projects," and similar expressions identify forward-looking statements. All forward-looking statements are based on the Partnership's current beliefs as well as assumptions made by and information currently available to the


 changes in the taxation of MLP investments by state or federal governments such as the elimination of pass-through taxation or tax deferred distributions, our ability to identify and complete expansion and growth opportunities, operating hazards beyond our control, the impact of a potential slowdown in construction activities or delay in completion of our capital projects including increase in costs and availability of labor,


 and Exchange Commission, including the Partnership's Annual Report on Form 10-K for the year ended December 31, 2019, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K.

 measures presented to assist investors in the evaluation of our business performance. We believe these measures provide additional meaningful information in evaluating our financial performance and cash


 titled measures presented by other entities.


[^0]:    Estimated as at Jun. 30, 2020 and exclusive of AFUDC; values represent TC PipeLines' proportionate share of estimated capex based on ownership and are subject to change as projects are developed. All projects are subject to customary regulatory approvals, North Baja XPress is also subject to shipper Final Investment Decision and Iroquois ExC is subject to certain other additional approvals.
    ${ }^{2}$ Estimated growth capex in 2020 includes $\$ 102$ million related to Phase I costs of GTN XPress and excludes capex for smaller projects across our portfolio of assets.
    ${ }^{3}$ Represents TC PipeLines' proportionate share of total expected maintenance capex in 2020 of $\$ 152$ million.

