

18 January 2018

## **Announcement to NZX**

### **Refining NZ Throughput and Margin Report for November/December 2017**

Refining NZ has finished the year strongly with full-year Processing Fee income at NZD 328.9 million, a 19% increase over prior year (2016 NZD 276.6 million).

The Company achieved a Gross Refinery Margin (GRM) of USD 6.83 per barrel for the November/December period and captured Processing Fee income of NZD 50.7 million.

Throughput for the November/December period was 7.3 million barrels and total 2017 throughput was 41.7 million barrels.

The Singapore Dubai complex margin for the November/December period was USD 3.67 per barrel, down from the USD 4.73 per barrel margin for the September/October period. Refining NZ's uplift over the Singapore Dubai complex margin was USD 3.16 per barrel in November/December.

The average exchange rate for the November/December period was USD/NZD 0.69.

The refinery to Auckland pipeline is operating at greater throughput than it was prior to the September leak. This is the result of the November commissioning of a planned capacity expansion and the regulator's approval of a partial increase in the operating pressure following repair of the leak. An additional capacity increase pending regulatory approval is expected in Q1/2 2018.

Appendix I shows further information on throughput, margin and refining income.

#### **Historical Analysis**

A five year history of Throughput, Margins and Processing Fees is attached as Appendix II and can also be found on the company's website: [www.refiningnz.com](http://www.refiningnz.com)

#### **Notes:**

1. The information provided in this announcement relates to refining operations only. Revenue from pipeline or other activities is not included.
2. The Processing Fee results reported in this announcement are subject to change due to post announcement price updates and independent audit.
3. Refining NZ's Gross Refining Margin is defined as the typical market value of the products produced minus the typical market value of the feedstock used, expressed per barrel of feedstock used. The margin incorporates the cost of the hydrocarbon used for fuel and incurred as process losses.

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## Appendix I – Year to date: 2017

### Throughput, Margin and Refining Income

		<b>Total</b>	<b>per bbl</b>
<b>Jan/Feb</b>	Throughput	Barrels (million)	7.16
	Gross Refining Margin	USD (million)	47.1
	Gross Refining Margin (excluding Floor/Cap)	USD (million)	47.1
	Interim Cap adjustment	NZD (million)	0.0
	Processing Fee (after Floor/Cap)	USD (million)	33.0
	Processing Fee (excluding Floor/Cap)	NZD (million)	45.9
	Processing Fee (after Floor/Cap)	NZD (million)	45.9
<b>Mar/Apr</b>	Throughput	Barrels (million)	5.14
	Gross Refining Margin	USD (million)	48.1
	Gross Refining Margin (excluding Floor/Cap)	USD (million)	48.1
	Interim Cap adjustment	NZD (million)	0.0
	Processing Fee (after Floor/Cap)	USD (million)	33.6
	Processing Fee (excluding Floor/Cap)	NZD (million)	48.1
	Processing Fee (after Floor/Cap)	NZD (million)	48.1
<b>May/Jun</b>	Throughput	Barrels (million)	7.76
	Gross Refining Margin	USD (million)	59.2
	Gross Refining Margin (excluding Floor/Cap)	USD (million)	59.2
	Interim Cap adjustment	NZD (million)	0.0
	Processing Fee (after Floor/Cap)	USD (million)	41.4
	Processing Fee (excluding Floor/Cap)	NZD (million)	58.4
	Processing Fee (after Floor/Cap)	NZD (million)	58.4
<b>Jul/Aug</b>	Throughput	Barrels (million)	7.51
	Gross Refining Margin	USD (million)	66.6
	Gross Refining Margin (excluding Floor/Cap)	USD (million)	66.6
	Interim Cap adjustment	NZD (million)	0.0
	Processing Fee (after Floor/Cap)	USD (million)	46.6
	Processing Fee (excluding Floor/Cap)	NZD (million)	63.6
	Processing Fee (after Floor/Cap)	NZD (million)	63.6
<b>Sep/Oct</b>	Throughput	Barrels (million)	6.82
	Gross Refining Margin	USD (million)	63.5
	Gross Refining Margin (excluding Floor/Cap)	USD (million)	63.5
	Interim Cap adjustment	NZD (million)	0.0
	Processing Fee (after Floor/Cap)	USD (million)	44.4
	Processing Fee (excluding Floor/Cap)	NZD (million)	62.2
	Processing Fee (after Floor/Cap)	NZD (million)	62.2
<b>Nov/Dec</b>	Throughput	Barrels (million)	7.34
	Gross Refining Margin	USD (million)	50.1
	Gross Refining Margin (excluding Floor/Cap)	USD (million)	50.1
	Interim Cap adjustment	NZD (million)	0.0
	Processing Fee (after Floor/Cap)	USD (million)	35.1
	Processing Fee (excluding Floor/Cap)	NZD (million)	50.7
	Processing Fee (after Floor/Cap)	NZD (million)	50.7

Note: The GRM for a period may be above or below the Cap of USD 9.00 per barrel due to previous year price updates, which are not subject to the Floor/Cap in the current year

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## **Explanatory Note**

### **Throughput**

Throughput is the volume of feedstock intake, comprising crude oil, residues, natural gas and blendstock, measured in barrels. One barrel equates to approximately 159 litres.

### **Gross Refining Margin**

The Gross Refining Margin is calculated in USD as the difference between the value of products and the cost of feedstock for each refining customer. The value of products use Singapore quoted prices adjusted for New Zealand quality and the cost of importing those products to New Zealand. Feedstocks are valued using the notional market values adjusted for the cost of getting the feedstock to the refinery. The Gross Refining Margin incorporates the cost of hydrocarbon used as fuel and incurred as process losses.

Typically, Refining NZ has an uplift over the Singapore complex margins of around USD 3.00 to 4.00 per barrel. The value of the uplift varies due to fluctuations in freight rates, product quality premia, crude market premia and operational performance. Product quality premia are the cost differentials between products made to New Zealand quality and products made to the quality that applies to quoted prices in Singapore. Crude market premia are the cost differences between the crude types actually processed at Refining NZ and Dubai (used as basis for the Singapore complex margins).

### **Margin Cap/Fee Floor Adjustment**

The processing agreements with our customers contain both Floor and Margin Cap clauses, both effective over a full calendar year.

The Fee Floor is the minimum Processing Fee due, for a calendar year, up to a current maximum of NZD 131 million. If the year-to-date Processing Fee is below the pro-rata Fee Floor, then an interim pro-rata Fee Floor payment is made by the Customers. Should the Processing Fee exceed the Fee Floor in future months any pro-rata Fee Floor payments that have been made are repaid to the Customers.

The Margin Cap limits the Gross Refining Margin for each customer to a maximum of USD 9.00 per barrel over the calendar year. Should the Gross Refining Margin fall below the Cap in future months any pro-rata Cap reductions that have been made are repaid by the Customers.

The Cap and the Floor are subject to year-to-date adjustments.

Any balance remaining at the end of the year cannot be carried over to the next year.

### **Gross Refining Margin after Cap/Floor**

The Gross Refining Margin adjusted for any impacts of the Cap or Floor.

### **Processing Fee**

The Processing Fee is 70% of the Gross Refining Margin after any adjustment for the Cap or Floor. The Processing Fee is paid by our customers in NZD.

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## Appendix II - Historical Analysis

### Intake/Production, Gross Refining Margin and Processing Fee

		2013	2014	2015	2016	2017
Jan/Feb	Barrels 000's	6,786	6,740	7,056	6,826	7,160
	RNZ USD GRM per barrel <sup>1)</sup>	4.18	3.86	9.91	7.96	6.58
	Singapore Dubai Complex GRM	3.45	0.70	5.40	4.95	3.42
	Uplift vs. Singapore Dubai Complex <sup>3)</sup>	0.73	3.16	4.51	3.01	3.16
	NZD Processing Fee (million) <sup>2)4)</sup>	23.7	22.0	59.6	57.0	45.9
Mar/Apr	Barrels 000's	7,151	6,146	7,411	7,471	5,140
	RNZ USD GRM per barrel <sup>1)</sup>	5.03	-2.84	8.77	1.84	9.35
	Singapore Dubai Complex GRM	2.73	1.36	4.82	3.18	3.02
	Uplift vs. Singapore Dubai Complex <sup>3)</sup>	2.30	-4.20	3.95	-1.34	6.33
	NZD Processing Fee (million) <sup>2)</sup>	30.0	20.7	62.3	14.8	48.1
May/Jun	Barrels 000's	7,048	6,976	6,416	6,837	7,755
	RNZ USD GRM per barrel <sup>1)</sup>	6.84	3.48	8.55	6.26	7.63
	Singapore Dubai Complex GRM	2.92	0.10	4.24	2.13	2.90
	Uplift vs. Singapore Dubai Complex <sup>3)</sup>	3.92	3.38	4.31	4.13	4.73
	NZD Processing Fee (million) <sup>2)</sup>	41.8	21.1	48.9	43.3	58.4
Jul/Aug	Barrels 000's	7,194	6,298	7,519	6,833	7,511
	RNZ USD GRM per barrel <sup>1)</sup>	6.05	6.75	7.66	6.20	8.87
	Singapore Dubai Complex GRM	2.42	-0.55	2.52	1.86	4.70
	Uplift vs. Singapore Dubai Complex <sup>3)</sup>	3.63	7.30	5.14	4.34	4.17
	NZD Processing Fee (million) <sup>2)</sup>	38.5	21.3	63.5	41.3	63.6
Sept/Oct	Barrels 000's	6,730	6,388	7,221	7,251	6,816
	RNZ USD GRM per barrel <sup>1)</sup>	2.95	7.54	9.47	7.49	9.31
	Singapore Dubai Complex GRM	-1.58	2.54	5.12	3.18	4.73
	Uplift vs. Singapore Dubai Complex <sup>3)</sup>	4.53	5.00	4.35	4.31	4.58
	NZD Processing Fee (million) <sup>2)</sup>	16.8	21.0	71.8	52.5	62.2
Nov/Dec	Barrels 000's	5,693	7,127	7,017	7,447	7,342
	RNZ USD GRM per barrel <sup>1)</sup>	1.82	9.98	10.82	9.20	6.83
	Singapore Dubai Complex GRM	-0.22	4.48	6.37	4.19	3.67
	Uplift vs. Singapore Dubai Complex <sup>3)</sup>	2.04	5.50	4.45	5.01	3.16
	NZD Processing Fee (million) <sup>2)</sup>	8.8	62.4	73.0	67.6	50.7
<b>Total</b>	<b>Barrels 000's</b>	<b>40,602</b>	<b>39,676</b>	<b>42,639</b>	<b>42,665</b>	<b>41,724</b>
	<b>USD GRM per barrel <sup>1)</sup></b>	<b>4.58</b>	<b>4.96</b>	<b>9.20</b>	<b>6.47</b>	<b>8.02</b>
	<b>NZD Processing Fee (million) <sup>2)</sup></b>	<b>159.7</b>	<b>168.4</b>	<b>379.2</b>	<b>276.6</b>	<b>328.9</b>
	<b>YTD Cap adjustment</b>			<b>14.4</b>		
	<b>NZD Processing Fee (million) <sup>1)</sup></b>					

1) Excludes Fee Floor/Cap adjustment

2) Includes Fee Floor/Cap adjustment

3) RNZ uplift vs. Singapore Dubai Complex GRM is in USD per barrel

4) Jan/Feb 2017 excludes a prior period adjustment of (\$1.5m)

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