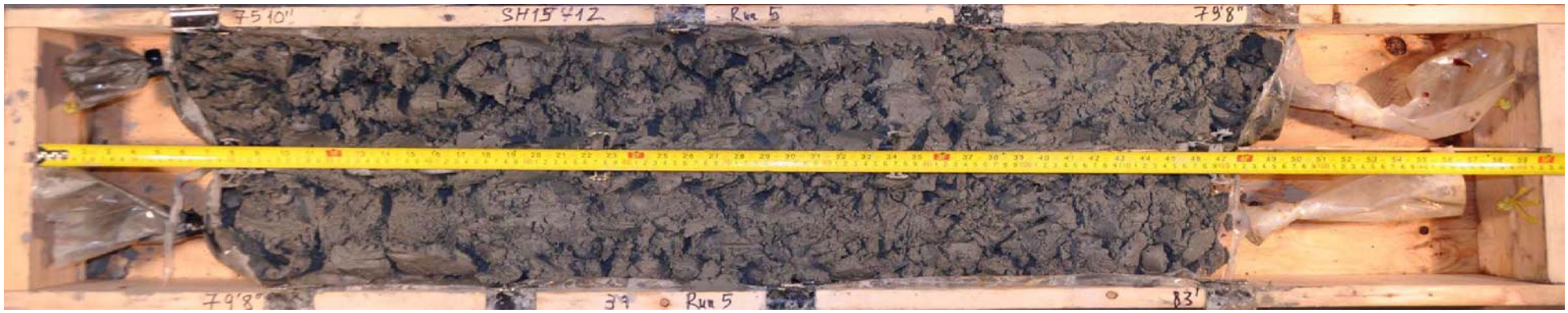


SH15-12 Box 9 of 17
75'10" ft. to 83' ft. depth

SH15-12 Box 10 of 17
83' ft. to 90'10" ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

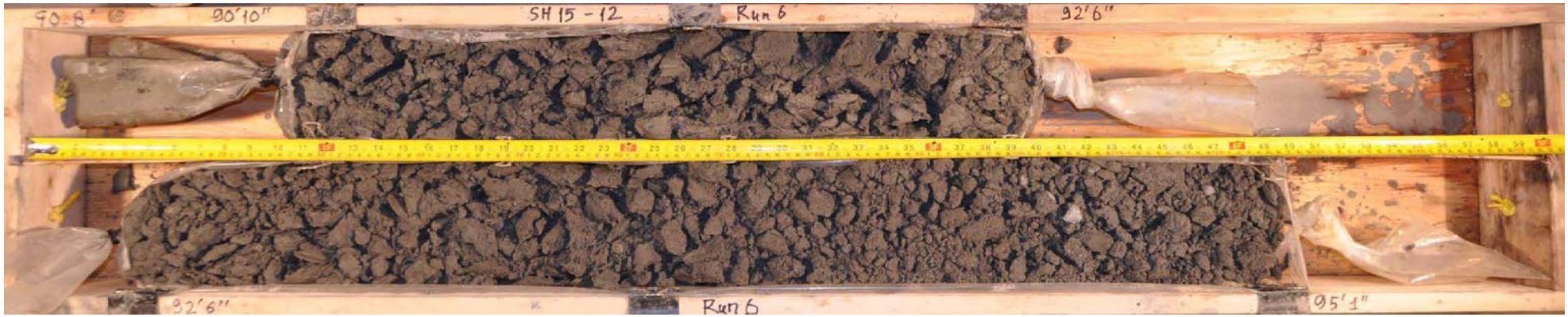
YYYY-MM-DD	2016-04-22
PREPARED	RE
DESIGN	RE
REVIEW	MM
APPROVED	JJ

PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A

O:\Active_2013\1422\13-1422-0010 IOL EA WCC LNG\10 Geophysical & Geotechnical\\07 Technical\Geotech_Field_Program\04 Core Photos\Cropped Photos



SH15-12 Box 11 of 17
90'10" ft. to 95'1" ft. depth

SH15-12 Box 12 of 17
95'1" ft. to 100'4" ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
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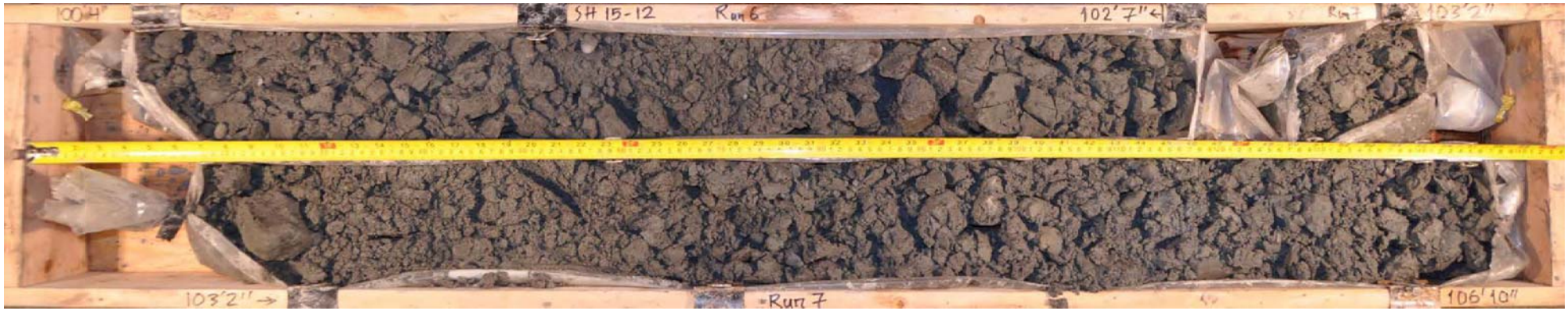
APPROVED	JJ

PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A



SH15-12 Box 13 of 17
100'4" ft. to 106'10" ft. depth

SH15-12 Box 14 of 17
106'10" ft. to 113"5" ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
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PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A

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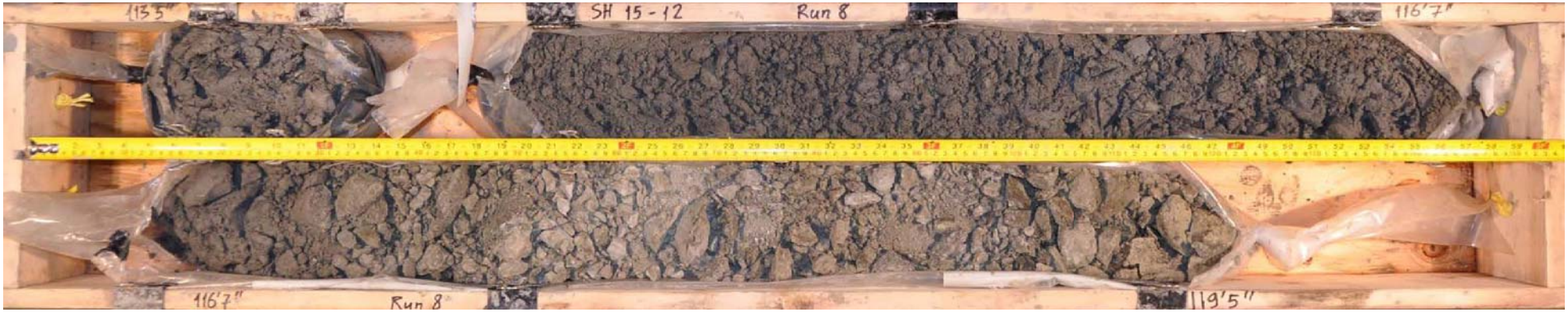
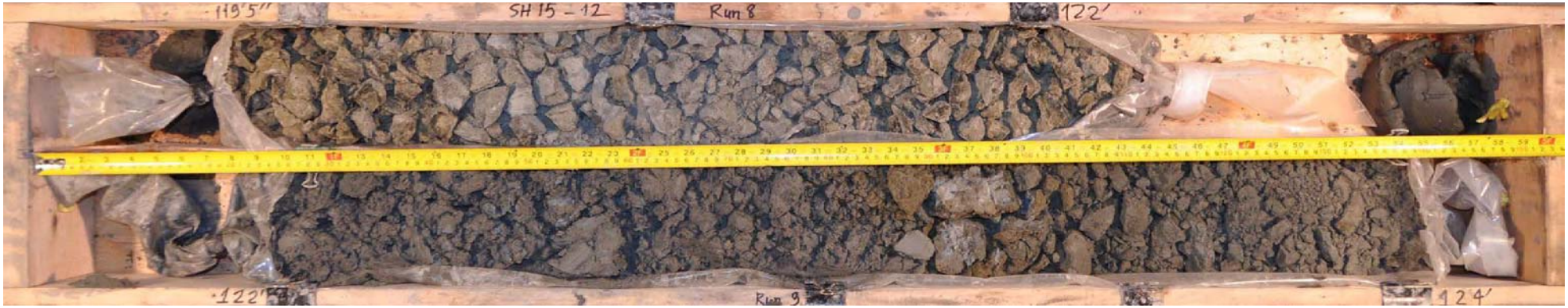


SH15-12 Box 15 of 17
113'5" ft. to 119'5" ft. depth



SH15-12 Box 16 of 17
119'5" ft. to 124' ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
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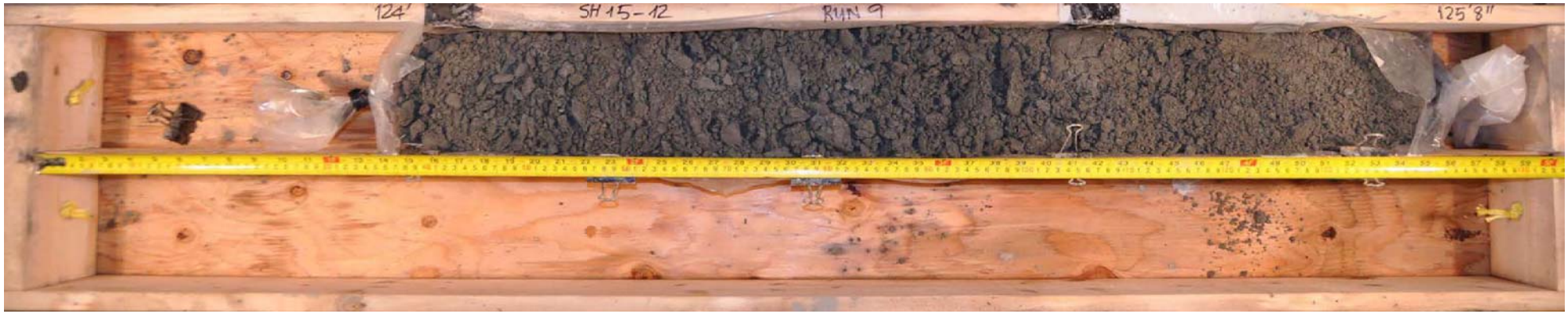
PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A



SH15-12 Box 17 of 17

124' ft. to 125'8" ft. depth (End of Sonic)

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
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CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
DESIGN	RE
REVIEW	MM
APPROVED	JJ

PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

SH15-12 Rock Core Boxes (2 Boxes)
125'8" ft. to 154'6" ft. depth (EOH)

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-21
PREPARED	RE
DESIGN	RE
REVIEW	MM
APPROVED	JJ

PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE ROCK CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A

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SH15-14 Box 1 of 21
0'0" ft. to 9'10" ft. depth

SH15-14 Box 2 of 21
9'10" ft. to 22'4" ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
DESIGN	RE
REVIEW	MM
APPROVED	JJ

PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A SH15-14 Page # 1

SH15-14 Box 3 of 21
22'4" ft. to 35'2" ft. depth

SH15-14 Box 4 of 21
35'2" ft. to 45'1" ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
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CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
DESIGN	RE
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PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A

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SH15-14 Box 5 of 21
45'1" ft. to 54'1" ft. depth

SH15-14 Box 6 of 21
54'1" ft. to 64'8" ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
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APPROVED	JJ

PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A SH15-14 Page # 3

SH15-14 Box 7 of 21
64’8” ft. to 74’10” ft. depth (LOST CORE 74’10”-80’)

SH15-14 Box 8 of 21
80’ ft. to 89’5” ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
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CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
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PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A

SH15-14 Box 9 of 21
89'5" ft. to 100'2" ft. depth

SH15-14 Box 10 of 21
100'2" ft. to 107'10" ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
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APPROVED	JJ

PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A

SH15-14 Box 11 of 21
107'10" ft. to 118'11" ft. depth

SH15-14 Box 12 of 21
118'11" ft. to 127'8" ft. depth

NOTE:
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2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
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PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A

SH15-14 Box 13 of 21
127'8" ft. to 136'5" ft. depth

SH15-14 Box 14 of 21
136'5" ft. to 144'10" ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
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REVIEW	MM
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PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

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SH15-14 Box 15 of 21
144'10" ft. to 154'6" ft. depth

SH15-14 Box 16 of 21
154'6" ft. to 164'6" ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

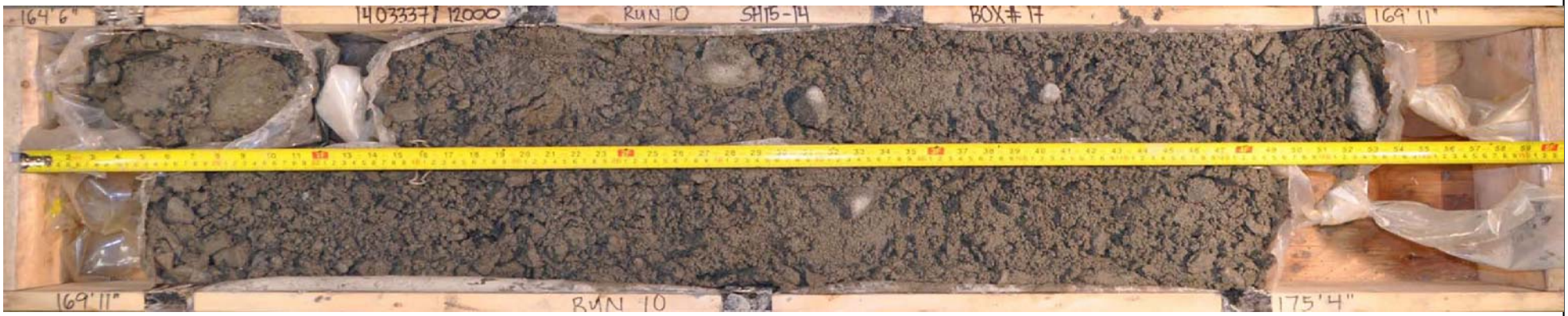
CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
DESIGN	RE
REVIEW	MM
APPROVED	JJ

PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A SH15-14 Page # 8



SH15-14 Box 17 of 21
164'6" ft. to 175'4" ft. depth

SH15-14 Box 18 of 21
175'4" ft. to 185'1 ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
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APPROVED	JJ

PROJECT
WESTRIDGE MARINE TERMINAL
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TITLE SONIC CORE PHOTOGRAPHS

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SH15-14 Box 19 of 21
185'1" ft. to 191'11" ft. depth

SH15-14 Box 20 of 21
191'11" ft. to 199'4" ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
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APPROVED	JJ

PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

SH15-14 Box 21 of 21

199'4" ft. to 204'3" ft. depth (EOH)

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
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PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

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SH15-15 Box 1 of 20
0'0" ft. to 11' ft. depth

SH15-15 Box 2 of 20
11' ft. to 21'5" ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
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PROJECT
WESTRIDGE MARINE TERMINAL
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TITLE SONIC CORE PHOTOGRAPHS

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SH15-15 Box 3 of 20
21’5” ft. to 31’5” ft. depth

SH15-15 Box 4 of 20
31’5” ft. to 41’2” ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
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PROJECT
WESTRIDGE MARINE TERMINAL
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TITLE SONIC CORE PHOTOGRAPHS

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SH15-15 Box 5 of 20
41'2" ft. to 52'1" ft. depth

SH15-15 Box 6 of 20
52'1" ft. to 58'8" ft. depth

NOTE:
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CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
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TITLE SONIC CORE PHOTOGRAPHS

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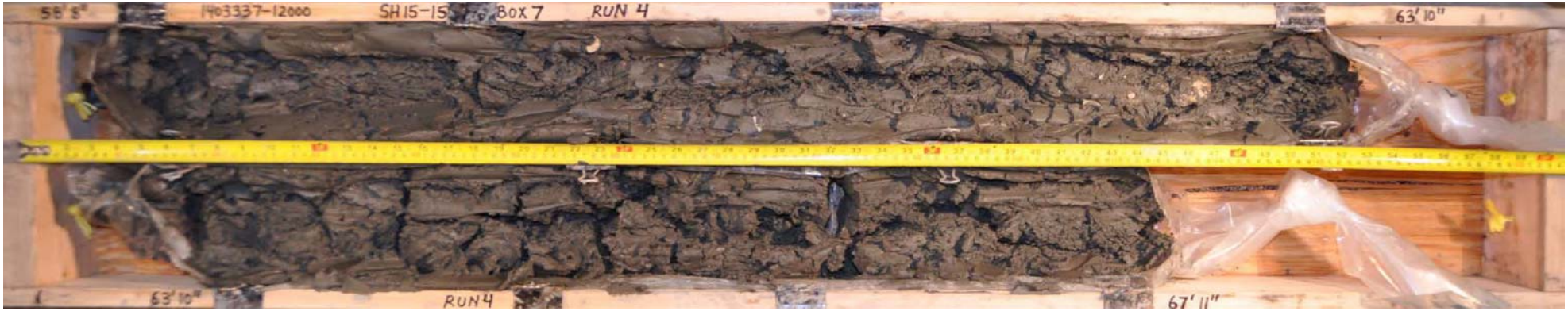

SH15-15 Box 7 of 20
58'8" ft. to 67'11" ft. depth

SH15-15 Box 8 of 20
67'11" ft. to 77' ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
DESIGN	RE
REVIEW	MM
APPROVED	JJ

PROJECT
WESTRIDGE MARINE TERMINAL
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TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A SH15-15 Page # 4

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SH15-15 Box 9 of 20
77’ ft. to 84’4” ft. depth

SH15-15 Box 10 of 20
84’4” ft. to 93’8” ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
DESIGN	RE
REVIEW	MM
APPROVED	JJ

PROJECT
WESTRIDGE MARINE TERMINAL
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SH15-15 Box 11 of 20
93'8" ft. to 103'11" ft. depth

SH15-15 Box 12 of 20
103'11" ft. to 113'10" ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
2. Photographs were taken before logs were finalized. As a result, information displayed on the box may have been slightly altered. Please refer to sonic and borehole logs for final information.

CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
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PROJECT
WESTRIDGE MARINE TERMINAL
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SH15-15 Box 13 of 20
113'10" ft. to 120'6" ft. depth

SH15-15 Box 14 of 20
120'6" ft. to 127'4" ft. depth

NOTE:
1. Photographs have been cropped from original photograph size. No color correction has been applied. For more accurate color reference please see original photographs with color chart.
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CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
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PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

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SH15-15 Box 15 of 20
127'4" ft. to 134'7" ft. depth

SH15-15 Box 16 of 20
134'7" ft. to 142'8" ft. depth

NOTE:
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CLIENT **KINDER MORGAN (TRANS MOUNTAIN)**

CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-22
PREPARED	RE
DESIGN	RE
REVIEW	MM
APPROVED	JJ

PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A

SH15-15 Box 17 of 20
142’8” ft. to 151’ ft. depth

SH15-15 Box 18 of 20
151’ ft. to 158’5” ft. depth

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SH15-15 Box 19 of 20
158'5" ft. to 166'5" ft. depth

SH15-15 Box 20 of 20
166'5" ft. to 176'4" ft. depth (EOH)

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SH15-16 Box 1 of 24
0'0" ft. to 19'5" ft. depth

SH15-16 Box 2 of 24
19'5" ft. to 31'11" ft. depth

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SH15-16 Box 3 of 24
31'11" ft. to 44'8" ft. depth

SH15-16 Box 4 of 24
44'8" ft. to 55' ft. depth

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SH15-16 Box 5 of 24
55’ ft. to 65’4” ft. depth

SH15-16 Box 6 of 24
65’4” ft. to 74’10” ft. depth

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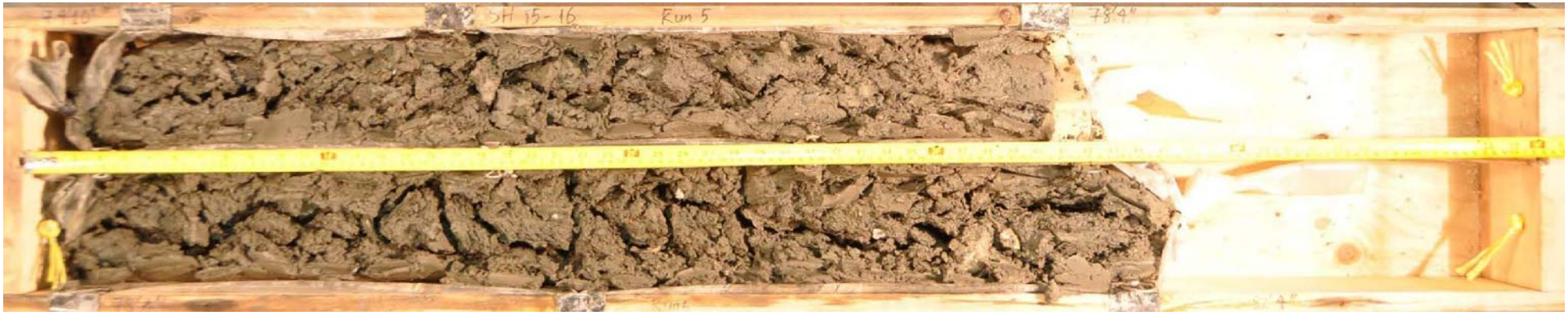

SH15-16 Box 7 of 24
74’10” ft. to 82’4” ft. depth

SH15-16 Box 8 of 24
82’4” ft. to 91’3” ft. depth

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SH15-16 Box 9 of 24
91'3" ft. to 101'5" ft. depth

SH15-16 Box 10 of 24
101'5" ft. to 110'8" ft. depth

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SH15-16 Box 11 of 24
110'8" ft. to 118'5" ft. depth

SH15-16 Box 12 of 24
118'5" ft. to 124'7" ft. depth

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SH15-16 Box 13 of 24
124'7" ft. to 136'4" ft. depth

SH15-16 Box 14 of 24
136'4" ft. to 165'5" ft. depth

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SH15-16 Box 15 of 24
165'5" ft. to 174'11" ft. depth

SH15-16 Box 16 of 24
174'11" ft. to184' ft. depth

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SH15-16 Box 17 of 24
184' ft. to 191'8" ft. depth

SH15-16 Box 18 of 24
191'8" ft. to 197'8" ft. depth

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