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

SH15-02 Box 1 of 24
0'0" ft. to 19'1" ft. depth

SH15-02 Box 2 of 24
19'1" ft. to 29'8" 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	2016-04-21
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

SH15-02 Box 3 of 24
29’8” ft. to 40’6” ft. depth

SH15-02 Box 4 of 24
40’6” ft. to 50’3” 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	2016-04-21
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

SH15-02 Box 5 of 24
50’3” ft. to 58’6” ft. depth

SH15-02 Box 6 of 24
58’6” ft. to 68’11” 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	2016-04-21
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

SH15-02 Box 7 of 24
68'11" ft. to 79'3" ft. depth

SH15-02 Box 8 of 24
79'3" ft. to 88'8" 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	2016-04-21
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

SH15-02 Box 9 of 24
88'8" ft. to 96'2" ft. depth

SH15-02 Box 10 of 24
96'2" ft. to 103'10" 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)**

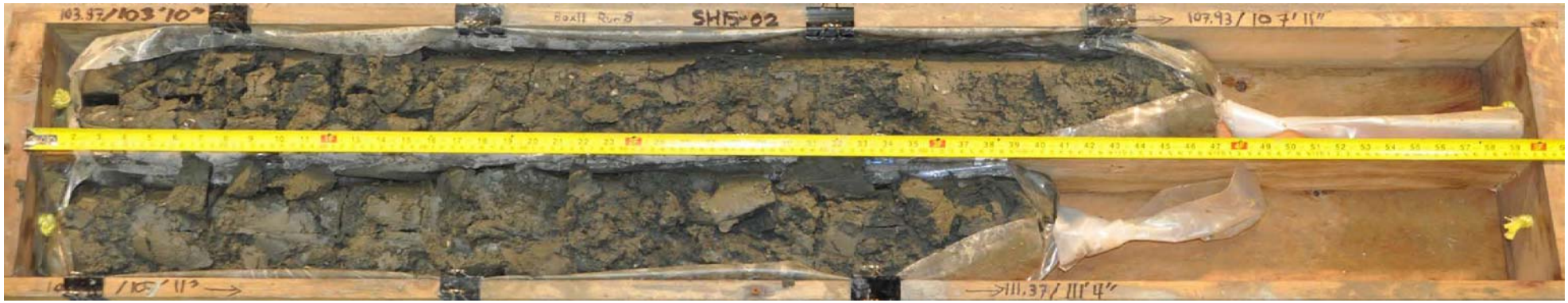
CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-21
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



SH15-02 Box 11 of 24
103'10" ft. to 111'4" ft. depth

SH15-02 Box 12 of 24
111'4" ft. to 120'1" 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	2016-04-21
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

SH15-02 Box 13 of 24
120'1" ft. to 129'3" ft. depth

SH15-02 Box 14 of 24
129'3" ft. to 136'3" 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	2016-04-21
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

SH15-02 Box 15 of 24
136'3" ft. to 145' ft. depth

SH15-02 Box 16 of 24
145' ft. to 153'6" 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	2016-04-21
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

SH15-02 Box 17 of 24
153'6" ft. to 161' ft. depth

SH15-02 Box 18 of 24
161' ft. to 170'7" 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	2016-04-21
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

SH15-02 Box 19 of 24
170'7" ft. to 182'5" ft. depth

SH15-02 Box 20 of 24
182'5" ft. to 190'5" 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	2016-04-21
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 SH15-02 Page # 10

SH15-02 Box 21 of 24
190'5" ft. to 196'8" ft. depth

SH15-02 Box 22 of 24
196'8" ft. to 201'3" 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	2016-04-21
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

SH15-02 Box 23 of 24
201'3" ft. to 206'10" ft. depth

SH15-02 Box 24 of 24
206'10" ft. to 216'7" 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 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

SH15-02A Box 1 of 4
156’9” ft. to 165’ ft. depth

SH15-02A Box 2 of 4
165’ ft. to 172’7” 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	2016-04-21
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 SH15-02A Page # 1

SH15-02A Box 3 of 4
172'7" ft. to 181' ft. depth

SH15-02A Box 4 of 4
181' ft. to 186' 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 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

SH15-03 Box 1 of 10
0'0" ft. to 24'2" ft. depth

SH15-03 Box 2 of 10
24'2" ft. to 39'5" 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	2016-04-21
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 SH15-03 Page # 1

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

SH15-03 Box 3 of 10
39’5” ft. to 50’10” ft. depth

SH15-03 Box 4 of 10
50’10” ft. to 61’7” 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	2016-04-21
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 SH15-03 Page # 2

SH15-03 Box 5 of 10
61'7" ft. to 70'7" ft. depth

SH15-03 Box 6 of 10
70'7" ft. to 81'2" 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	2016-04-21
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 SH15-03 Page # 3

SH15-03 Box 7 of 10
81'2" ft. to 87'7" ft. depth

SH15-03 Box 8 of 10
87'7" ft. to 93'2" 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	2016-04-21
PREPARED	RE
DESIGN	RE
REVIEW	MM
APPROVED	JJ

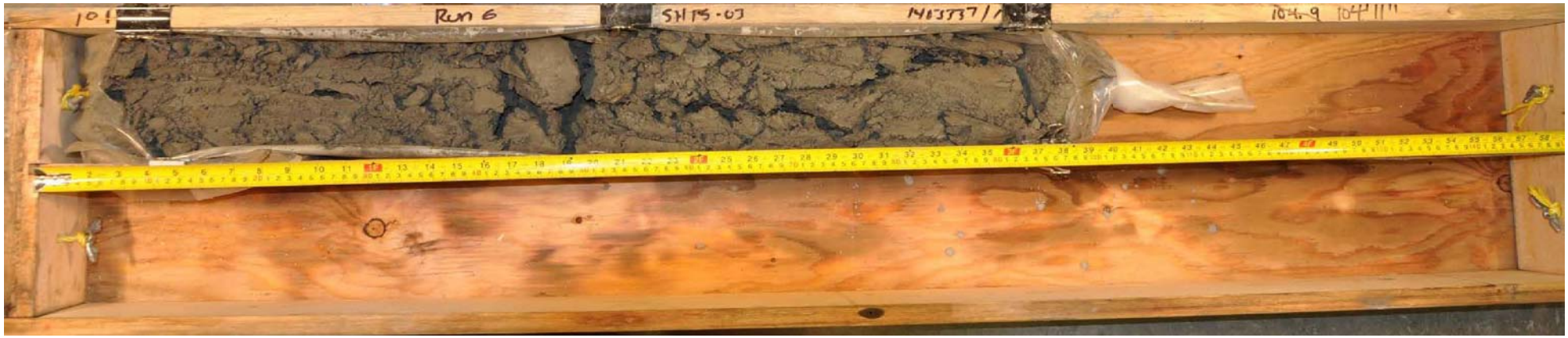
PROJECT
WESTRIDGE MARINE TERMINAL
SUPPLEMENTARY OFFSHORE GEOTECHNICAL INVESTIGATION, BURNABY, B.C.

TITLE SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A SH15-03 Page # 4

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

SH15-03 Box 9 of 10
93'2" ft. to 101' ft. depth



SH15-03 Box 10 of 10
101' ft. to 104''11" 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 SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A SH15-03 Page # 5

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

SH15-03A Box 1 of 4
80’11” ft. to 93’4” ft. depth

SH15-03A Box 2 of 4
93’4” ft. to 99’9” 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	2016-04-21
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 SH15-03A Page # 1

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

SH15-03A Box 3 of 4
99'9" ft. to 104'6" ft. depth

SH15-03A Box 4 of 4
104'6" ft. to 110'9" 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.
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 SONIC CORE PHOTOGRAPHS

PROJECT No. 1403337/15000 Rev. A SH15-03A Page # 2

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

SH15-03A Rock Core Boxes (3 Boxes)

110’9” ft. to 150’2” 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

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

SH15-04 Box 1 of 25
0'0" ft. to 14'10" ft. depth

SH15-04 Box 2 of 25
14'10" ft. to 31'6" 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	2016-04-21
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 SH15-04 Page # 1

SH15-04 Box 3 of 25
31'6" ft. to 43'10" ft. depth

SH15-04 Box 4 of 25
43'10" ft. to 52'10" 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	2016-04-21
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

SH15-04 Box 5 of 25
52'10" ft. to 63'9" ft. depth

SH15-04 Box 6 of 25
63'9" ft. to 73'5"" 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)**

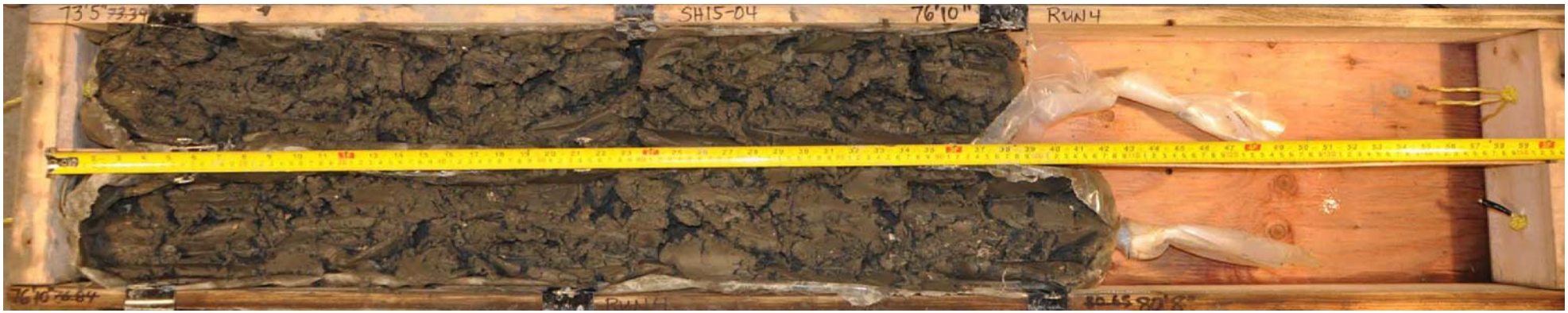
CONSULTANT Golder Associates

YYYY-MM-DD	2016-04-21
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 SH15-04 Page # 3



SH15-04 Box 7 of 25
73’5” ft. to 80’8” ft. depth

SH15-04 Box 8 of 25
80’8’’ ft. to 88’4” 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	2016-04-21
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 SH15-04 Page # 4

SH15-04 Box 9 of 25
88'4" ft. to 95'7" ft. depth

SH15-04 Box 10 of 25
95'7" ft. to 103'3" 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	2016-04-21
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

SH15-04 Box 11 of 25
103'3" ft. to 110'11" ft. depth

SH15-04 Box 12 of 25
110'11" ft. to 122'2" 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	2016-04-21
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 SH15-04 Page # 6

SH15-04 Box 13 of 25
122'2" ft. to 128'10" ft. depth

SH15-04 Box 14 of 25
128'10" ft. to 135'7" 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	2016-04-21
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

SH15-04 Box 15 of 25
135'7" ft. to 143' ft. depth

SH15-04 Box 16 of 25
143' ft. to 149'7" 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	2016-04-21
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

SH15-04 Box 17 of 25
149'7" ft. to 158'8" ft. depth

SH15-04 Box 18 of 25
158'8" ft. to 165'10" 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	2016-04-21
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

SH15-04 Box 19 of 25
165'10" ft. to 172'3" ft. depth

SH15-04 Box 20 of 25
172'3" ft. to 179'1" 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	2016-04-21
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 SH15-04 Page # 10

SH15-04 Box 21 of 25
179'1" ft. to 184'8" ft. depth

SH15-04 Box 22 of 25
184'8" ft. to 191'4" 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	2016-04-21
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

SH15-04 Box 23 of 25
191'4" ft. to 197'4" ft. depth

SH15-04 Box 24 of 25
197'4" ft. to 204'2" 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	2016-04-21
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

SH15-04 Box 25 of 25

204’2” ft. to 210’5” 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 SONIC CORE PHOTOGRAPHS

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

SH15-05 Box 1 of 25
0'0" ft. to 14'2" ft. depth

SH15-05 Box 2 of 25
14'2" ft. to 28'5" 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	2016-04-21
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 SH15-05 Page # 1

SH15-05 Box 3 of 25
28'5" ft. to 35'11" ft. depth

SH15-05 Box 4 of 25
35'11" ft. to 47'8" 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	2016-04-21
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