

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					
16. As built survey completed					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Pezera Azmate
Maxime Cote
Patrice Gagnon

SIGNATURE

SIGNATURE

[Handwritten signature]

DATE

Aug. 21, 2018
2018-08-21
2018-08-21

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180821-DS-07
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 21, 2018
TIME: 17:15
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: fine filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+545 to 0+575</u>	Station: <u>0+540 to 0+545</u>
Inclination:		Details: _____
ELEVATION	☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/ water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction			✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

Tezera Azmadd
Maxime Corti
Rice Gynas

SIGNATURE

Intireach

DATE

Aug 21, 2018
2018-08-21
2018-08-21

PROJECT : WTO CONSTRUCTION
PROJECT # : 658309
DOCUMENT # : 20180822-NS-06
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-22
TIME: 4:40
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: FINE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+490 TO 0+495</u>	Station: <u>0+447 TO 0+490</u>
Inclination: <u>1.5H:1V</u>	Details: _____
ELEVATION : ☐ varies <u>157.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD Construction
PROJECT # : _____
DOCUMENT # : 20180822-DS-05
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift
DATE: Aug. 22, 2018
TIME: 17:30
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Fine filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station <u>0+495 to 0+530</u>	Station: <u>0+490 to 0+495</u>	
Inclination: _____	Details: _____	
ELEVATION : ☐ varies <u>1.57</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock			✓		
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

Tezera Azmata
Maxime Côté
Patrice Gagnon

SIGNATURE

~~Infra~~
RCy

DATE

Aug. 22, 2018
2018-08-22
2018-08-22

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-03
DOCUMENT #: 20180803-NS-02 TIME: 4:45
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: FINE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+727 to 0+739</u>	Station: <u>0+772 to 0+808</u>
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
ALL	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHEU JÉZÉQUEL

Dany J. Lacombe

Patrice Goyens

SIGNATURE





DATE

2018-08-23

2018-08-23

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-23
DOCUMENT #: 20180823-NS-03 TIME: 4:50
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: FINE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+575 To 0+600</u>	Station: <u>0+545 To 0+575</u>
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
ALL	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis J. Leblond

Patrice Gagnon

SIGNATURE

[Signature]

[Signature]

[Signature]

DATE

2018-08-23

2018-08-23

2018-08-23

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 23, 2018
DOCUMENT #: 20180823-DS-04 TIME: 17:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Fine filter placement
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station: <u>0+600 to 0+625</u>	Station: <u>0+575 to 0+600</u>
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/ <u>water</u>	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Tezera Azmatch
maxine cote
habice Cagum

SIGNATURE

forwards

DATE

Aug. 23, 2018
2018-08-23
2018-08-23

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-24
DOCUMENT #: 20180824-NS-02 TIME: 4:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: FINE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+625 to 0+647</u>	Station:	<u>0+600 to 0+625</u>
Inclination:		Details:	
ELEVATION	☐ varies <u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
ALL	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL
 Denis J. Laubert
 Patrice Gagnon

SIGNATURE

[Handwritten Signature]
[Handwritten Signature]
[Handwritten Signature]

DATE

2018-08-24
 2018-08-24
 2018-08-24

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-24
DOCUMENT #: 2018 0824-NS-03 TIME: 4:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: FINE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+530 To 0+590</u>	Station: <u>0+495 To 0+530</u>
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>157.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
ALL	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis J. Coulombe

Patrice Gagnon

SIGNATURE

Mathieu Jézéquel

Denis J. Coulombe

Patrice Gagnon

DATE

2018-08-24

2018-08-24

2018-08-24

PROJECT : WSD Construction
PROJECT #: 658309 DATE: Aug. 24, 2018
DOCUMENT #: 20180824-DS-03 TIME: 17:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: fine filter placement
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+647 to 0+673</u>	Station: <u>0+625 to 0+647</u>
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
(Add additional items if needed)					
1. Lines and grades	✓		✓		
2. Free of ice/snow/ water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WSD Construction
PROJECT #: 658309 DATE: Aug. 24, 2018
DOCUMENT #: 20180824-DS-04 TIME: 17:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Fine filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station: <u>0+590 to 0+625</u>	Station: <u>0+530 to 0+590</u>
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>154</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					
16. As built survey completed					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

Pezeza Azmala
Maxime Cote
Justice Gagnon

SIGNATURE

for each

DATE

Aug. 24, 2018
18-08-24
2018-08-24

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-25
DOCUMENT #: 20180825-NS-03 TIME: 5:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: FINE FILTER (KEY TRENCH)
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+673 to 0+695</u>	Station:	<u>0+647 to 0+693</u>
Inclination:		Details:	
ELEVATION : ☐ varies	<u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:			
	QA		QC	
	Y	N	Y	N
1. Lines and grades	✓		✓	
2. Free of ice/snow/water	✓		✓	
3. Cleaning of trench and/or pile bottom				✓
4. Gradation (visual)	✓		✓	
5. Placement (lift thickness, segregation, etc.)	✓		✓	
6. Compaction				✓
7. Foundation on bedrock				✓
8. Key-in depth into bedrock				✓
9. Water quality				✓
10. CB slurry viscosity and density				✓
11. Elevation of CB Piles				✓
12. Primary piles strength (Minimum of 50 kPa UCS)				✓
13. Keying between primary and secondary				✓
14. Cracks on top of cutoff wall				✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
ALL	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU SÉZÉQUEL

Denis J. Coulombe

Patrice Gagnon

SIGNATURE

(Signature of Mathieu Sézéquel)

(Signature of Denis J. Coulombe)

(Signature of Patrice Gagnon)

DATE

2018-08-25

2018-08-25

2018-08-25

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-25
DOCUMENT #: 20180825-NS-04 TIME: 5:05
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: FINE FILLED
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+625 to 0+655</u>	Station: <u>0+590 to 0+625</u>
Inclination:		Details: _____
ELEVATION	☐ varies <u>157.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
ALL	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHEU SÉZÉQUEL

Denis J. Lombardi

Patrice Gagnon

SIGNATURE

[Signature]

[Signature]

[Signature]

DATE

2018-08-25

2018-08-25

2018-08-25

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 25, 2018
DOCUMENT #: 20180825-DS-03 TIME: 17:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Fine filter placement
☐ CB cutoff wall approval East Ab
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+815 to 0+835</u>	Station:	_____
Inclination:	_____	Details:	_____
ELEVATION : ☐ varies	<u>157</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-26
DOCUMENT #: 20180826-NS-01 TIME: 4:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: FINE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+748 TO 0+815</u>	Station: <u>0+815 TO 0+835</u>
Inclination: _____	Details: <u>ELEVATION 157.0m</u>
ELEVATION : ☒ varies <u>FOLLOWING UPSTREAM NATURAL GROUND. m</u>	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
<u>1</u>	<u>LINES AND GRADES TO BE CONFIRMED (FINAL)</u>	✓		✓	
	<u>→ REFER TO 20180826-NS-SR FOR DETAILS.</u>				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis J. Coulombe

Patrice Gagnon

SIGNATURE

[Signature]

[Signature]

[Signature]

DATE

2018-08-26

2018-08-26

2018-08-26

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 26, 2018
DOCUMENT #: 20180826-DS-03 TIME: _____
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Fine filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station: <u>0+738 to 0+805</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>157</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓				
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Tezera Azmat
Maxine Côté
Patrice Gagnon

SIGNATURE

Handwritten signature: *John G.*

DATE

Aug 26, 2018
18-08-26
2018-08-27

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug 26, 2018
DOCUMENT #: 20180826-05-05 TIME: 17:35
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Fine Fiber
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+695 to 0+727</u>	Station: <u>0+673 to 0+695</u>
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	☒		☒		
2. Free of ice/snow/ water	☒		☒		
3. Cleaning of trench and/or pile bottom	☒		☒		
4. Gradation (visual)	☒		☒		
5. Placement (lift thickness, segregation, etc.)	☒		☒		
6. Compaction					☒
7. Foundation on bedrock					☒
8. Key-in depth into bedrock					☒
9. Water quality					☒
10. CB slurry viscosity and density					☒
11. Elevation of CB Piles					☒
12. Primary piles strength (Minimum of 50 kPa UCS)					☒
13. Keying between primary and secondary					☒
14. Cracks on top of cutoff wall					☒

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-27
DOCUMENT #: 20180827-NS-01 TIME: 3:25
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: FINE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station <u>0+317 to 0+383</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>154.2</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>		<u>VERIFICATIONS DONE BY:</u>				
(Add additional items if needed)		QA		QC		N/A
		Y	N	Y	N	
1. Lines and grades		✓		✓		
2. Free of ice/snow/water		✓		✓		
3. Cleaning of trench and/or pile bottom						✓
4. Gradation (visual)		✓		✓		
5. Placement (lift thickness, segregation, etc.)		✓		✓		
6. Compaction						✓
7. Foundation on bedrock						✓
8. Key-in depth into bedrock						✓
9. Water quality						✓
10. CB slurry viscosity and density						✓
11. Elevation of CB Piles						✓
12. Primary piles strength (Minimum of 50 kPa UCS)						✓
13. Keying between primary and secondary						✓
14. Cracks on top of cutoff wall						✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
1	EL. 154.2m IS TEMPORARY: THIS LIFT WILL BE DYNAMICALLY COMPACTED AND THEN RAISED TO EL. 157.0m	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

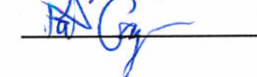
James J. Coulombe

Patrice Gagnon

SIGNATURE







DATE

2018-08-27

2018-08-27

2018-08-27

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-27
DOCUMENT #: 20180827-NS-04 TIME: 5:25
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: FINE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+655 to 0+740</u>	Station:	<u>0+625 to 0+655</u>
Inclination:		Details:	
ELEVATION	☐ varies <u>157.0</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

VERIFICATIONS DONE BY:

	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
ALL	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis J. Courbont

Patrice Gagnon

SIGNATURE







DATE

2018-08-27

2018-08-27

2018-09-27

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-18 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: FINE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+065 to 0+120</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION: ☐ varies <u>157.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N

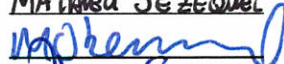
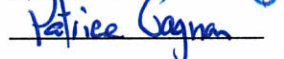
APPROVED BY:

QA REPRESENTATIVE

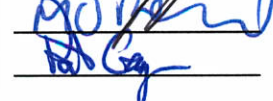
QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHEU JEZEQUEL

 Patrice Gagnon


SIGNATURE

DATE

2018-08-29
 2018-08-29
 2018-08-29

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-19 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: FINE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+805 TO 0+815</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>157.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)			✓		✓
16. As built survey completed			✓		✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

MOB

Arturo Gama

SIGNATURE

Mark Apple

महाराष्ट्र

[Signature]

DATE

2018-08-24

2018-08-29

2018-08-29

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: Aug. 30 2018
DOCUMENT #: 20180831-NS-01 TIME: 22:45
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: FINE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+330 to 0+380</u>	Station:	<u>0+300 to 0+330</u>
Inclination:	<u>1.5H:1V</u>	Details:	<u>20180831-DS-03</u>
ELEVATION	☐ varies <u>157</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

		APPROVED BY:			
ITEM		QA		QC	
		Y	N	Y	N
ALL	MEETS THE SPECIFICATION REQUIREMENTS.	✓		✓	

APPROVED BY:

NAME

SIGNATURE

DATE

QA REPRESENTATIVE

JONATHAN LEBLANC

Jonathan Leblanc

2018-08-31

QC REPRESENTATIVE

Cedrick Fillon Tremblay

Cedrick Fillon Tremblay

2018-08-31

OWNER'S REPRESENTATIVE

Patrice Gagnon

Pat Gagnon

2018-08-31

Appendix H-4

Coarse Filter Placement

As-Built Report of Whale Tail Dike		Original -V.00
2020-06-05	658309-0000-56ER-0001	Technical Report

PROJECT : WTD Construction
PROJECT #: 658309 DATE: 06-08-2018
DOCUMENT #: 2018-08-06-NS-01 TIME: 4h30 AM.
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: COARSE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station <u>North: 0+215 @ 0+245</u> <u>South: 0+217 @ 0+245</u>	Station: _____ Details: _____
Inclination: <u>4.5%</u>	
ELEVATION : ☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		✓
2. Free of ice/snow/water	✓		✓		✓
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					—
8. Key-in depth into bedrock					—
9. Water quality					—
10. CB slurry viscosity and density					—
11. Elevation of CB Piles					—
12. Primary piles strength (Minimum of 50 kPa UCS)					—
13. Keying between primary and secondary					—
14. Cracks on top of cutoff wall					—

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					<u> </u>
16. As built survey completed					<u> </u>
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

		<u>APPROVED BY:</u>			
		QA		QC	
ITEM		Y	N	Y	N
5	COARSE FILTER PLACEMENT	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

JONATHAN LEBLANC

Cedrick Eillen Tremblay

Patrice Gagnon

SIGNATURE

Jonathan Leblanc

Cedrick Eillen Tremblay

Patrice Gagnon

DATE

2018-08-06

2018-08-06

2018-08-06

PROJECT : WTD Construction
PROJECT #: 658 309 DATE: 07-08-2018
DOCUMENT #: 2018-08-07-NS-01 TIME: 5h26
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+245 to 0+280</u>	Station:	<u>0+215 to 0+245</u>
Inclination:		Details:	
ELEVATION	☐ varies <u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
5	Coarse Filter Placement	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Jonathan Leblanc

Corrick Fillion Tremblay

Patrice Gagnon

SIGNATURE

Jonathan Leblanc

Corrick Fillion Tremblay

Patrice Gagnon

DATE

07-08-2018

07-08-2018

07-08-2018

PROJECT : WTD Construction
PROJECT #: 658309 DATE: 08-08-2018
DOCUMENT #: 2018-08-08-NS-01 TIME: 5h00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+280 to 0+320</u>	Station:	<u>0+245 to 0+280</u>
Inclination:		Details:	
ELEVATION	☐ varies <u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

		APPROVED BY:			
		QA		QC	
ITEM		Y	N	Y	N
5	COARSE FILTER PLACEMENT	✓		✓	

APPROVED BY:

NAME

SIGNATURE

DATE

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

Jonathan Leblanc
Cedrick Fillon Tremblay
Pier-Eric McDonald

Jonathan Leblanc
Cedrick Fillon Tremblay
Pier-Eric McDonald

2018-08-08
2018-09-08
2018-08-08

PROJECT : WTD Construction
PROJECT #: 658309 DATE: 10/08/2018
DOCUMENT #: 20180810-DS-02 TIME: 14:33
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: coarse filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION Station: <u>South side . 0+320 TO 0+355</u> Inclination: <u>1.3:1</u> ELEVATION : ☐ varies <u>153.5</u> m	PREVIOUS APPROVALS Station: <u>0+280 TO 0+320</u> Details: _____
--	--

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of <u>ice/snow</u> /water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
5	the coarse filter between station 0+320 to 0+330 (NSA) and 0+339 (south) were not placed properly (0.7 m thickness upstream compared to 1.5 m - as per design sections). This placement was not approved. AEM decided to take out the coarse filter from 0+325 and replace it by respecting the drawings (south side only). See site reports: 20180809-NS-SR and 20180809-DS-SR for problem and Designer's advice. See in Appendix corrected placement.	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Angie Arbuiza

Melina Guay

Pierre-Eric McDonald

SIGNATURE

Angie A

Melina Guay

Pierre-Eric McDonald

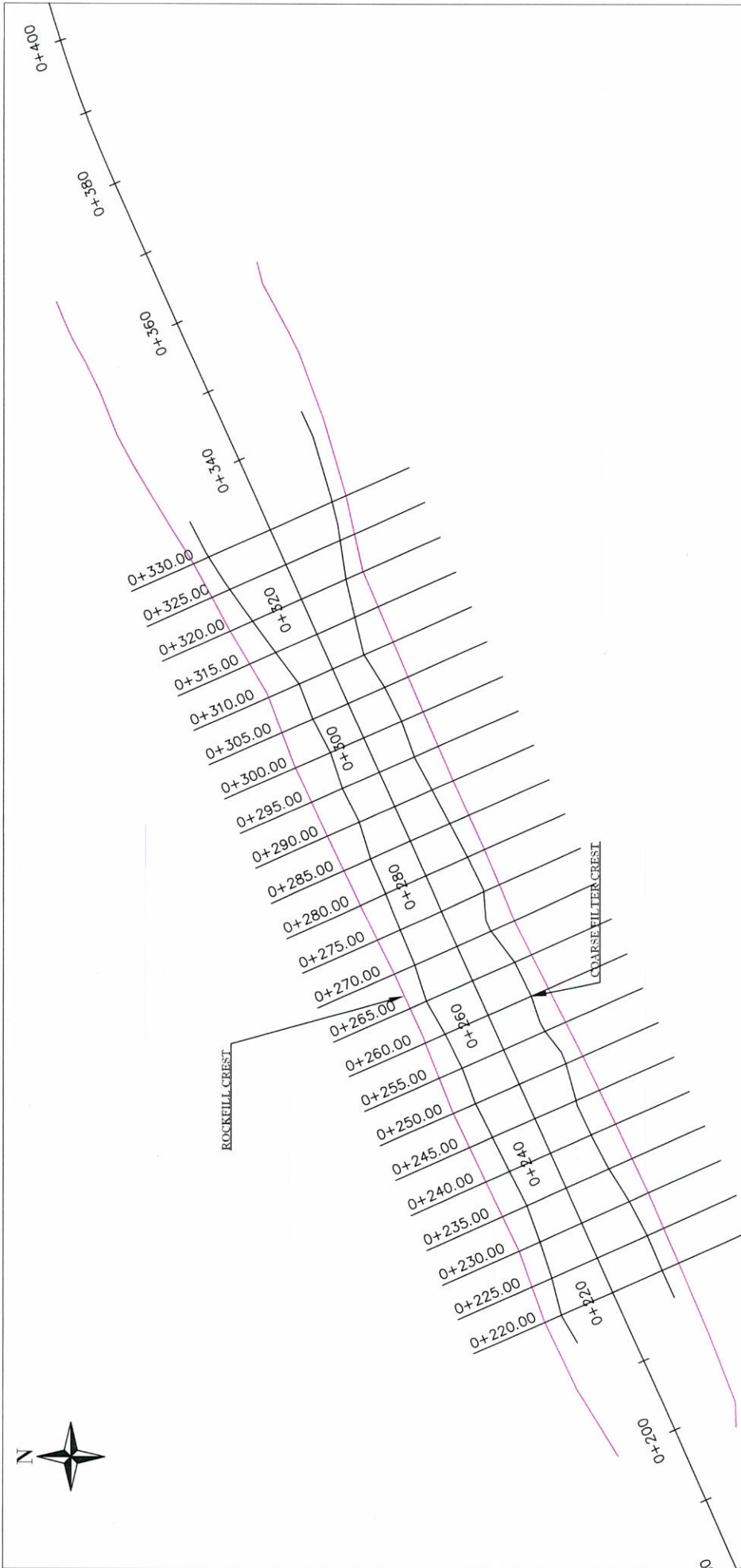
DATE

10/08/2018

10/08/2018

10/08/2018

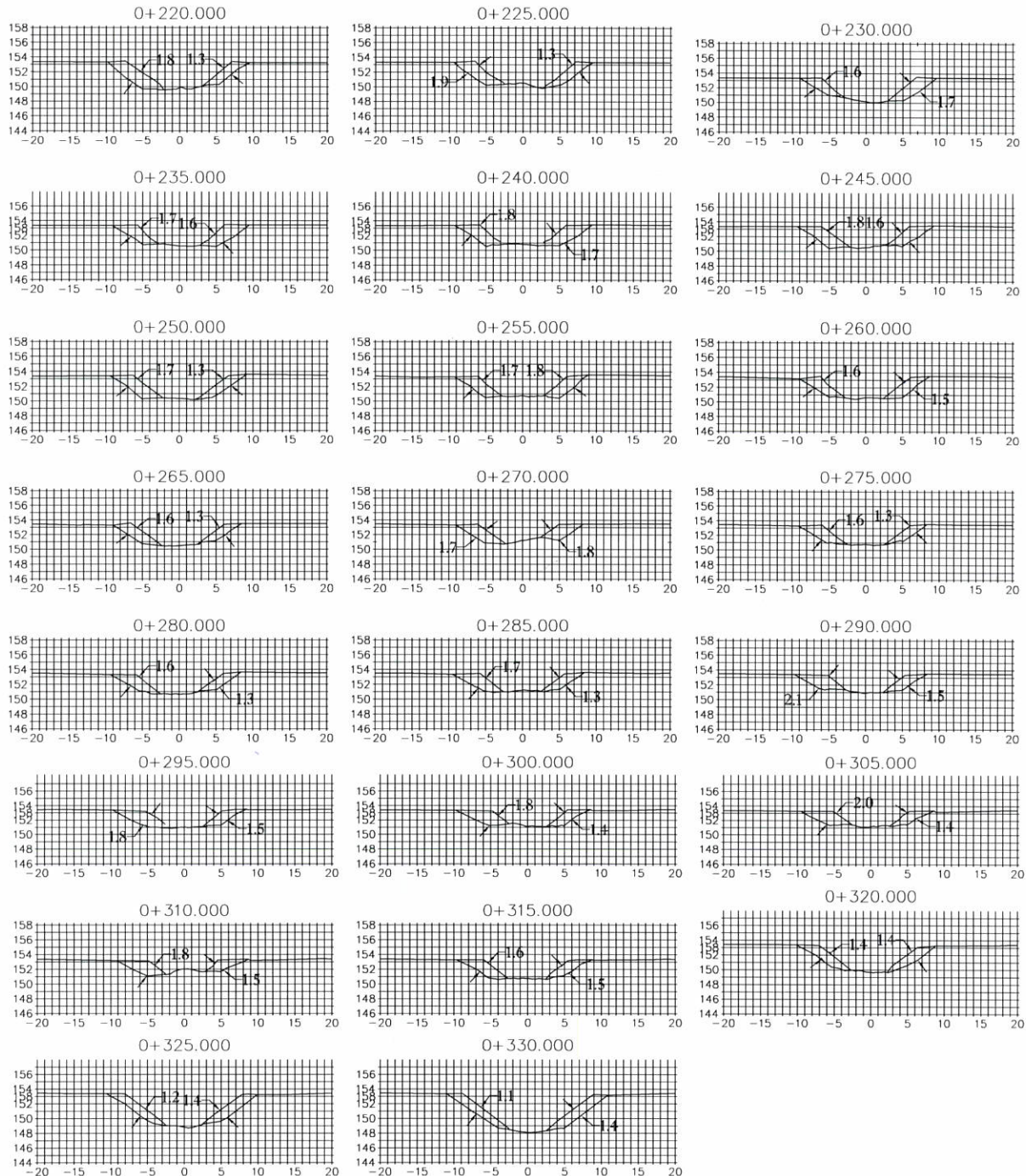
CF-WT-001
COARSE FILTER APPROVAL
CONTRACT # 11-811



KIVALIO CONTRACTORS
GROUP LTD

PREPARED BY : MIKAËL LÉVESQUE
DATE : 10-08-2018
CON-FD-022_CFA

CF-WT-001
COARSE FILTER APPROVAL
CONTRACT # 11-811



KIVALLIQ CONTRACTORS
GROUP LTD

PREPARED BY : MIKAËL LÉVESQUE
 DATE : 10-08-2018
 CON-FD-022_CFA

PROJECT : WTD Construction
PROJECT #: 658 309 DATE: 11-08-2018
DOCUMENT #: 20180811-NS-01 TIME: 3h00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION Station: <u>North side.</u> <u>0+320 to 0+355</u> Inclination: <u>1.3 : 1</u> ELEVATION : ☐ varies <u>153.5</u> m	PREVIOUS APPROVALS Station: <u>South Side</u> <u>0+320 to 0+355</u> Details: <u>Ø</u>
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COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

		APPROVED BY:			
		QA		QC	
ITEM		Y	N	Y	N
5	Coarse filter placement according to the specs and the drawings (inclination and thickness of the filter verified with the surveyor and the GPS equipped bucket of the excavator.	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Jonathan Lelanc
Cedrick Fillion Tremblay
Pier-Eric McDonald

SIGNATURE

Jonathan Lelanc
Cedrick Fillion Tremblay
Pier-Eric McDonald

DATE

2018-08-11
2018-08-11
2018-08-11

PROJECT : WTD construction
PROJECT #: 658309 DATE: 13/08/2018
DOCUMENT #: 20180813-DS-01 TIME: 14:48
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: coarse filter
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+205 to 0+150</u>	Station:	<u>0+355 to 0+375</u>
Inclination:	<u>1.3-1.5 : 1 (transition)</u>	Details:	_____
ELEVATION	☐ varies <u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of <u>ice/snow</u> /water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock	✓		✓		
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed	✓		✓		
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
5	Placement of coarse filter according to the specifications	✓			

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Angie Arbaiza

Daniel Roy

Pier-Eric McDonald

SIGNATURE

[Handwritten signatures]

DATE

13/08/2018

13/08/2018

14/08/2018

PROJECT : WTD Construction
PROJECT #: 658 309 DATE: 14/08/2018
DOCUMENT #: 2018 0814-NS-02 TIME: 02h00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+355 to 0+375</u>	Station: <u>0+205 to 0+150</u>
Inclination: <u>1.3 : 1</u>	Details: <u>west abutment</u>
ELEVATION : ☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)		<u>VERIFICATIONS DONE BY:</u>				
		QA		QC		N/A
		Y	N	Y	N	
1. Lines and grades		✓		✓		
2. Free of ice/snow/water		✓		✓		
3. Cleaning of trench and/or pile bottom		✓		✓		
4. Gradation (visual)		✓		✓		
5. Placement (lift thickness, segregation, etc.)		✓		✓		
6. Compaction		✓		✓		
7. Foundation on bedrock						✓
8. Key-in depth into bedrock						✓
9. Water quality						✓
10. CB slurry viscosity and density						✓
11. Elevation of CB Piles						✓
12. Primary piles strength (Minimum of 50 kPa UCS)						✓
13. Keying between primary and secondary						✓
14. Cracks on top of cutoff wall						✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
5	Placement of coarse filter according to the specification requirements. See in Appendix construction method proposed by the contractor.	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

JONATHAN LEBLANC

Denis J. Coulombe

Pier-Eric McDougald

SIGNATURE

Jonathan Leblanc

Denis J. Coulombe

Pier-Eric McDougald

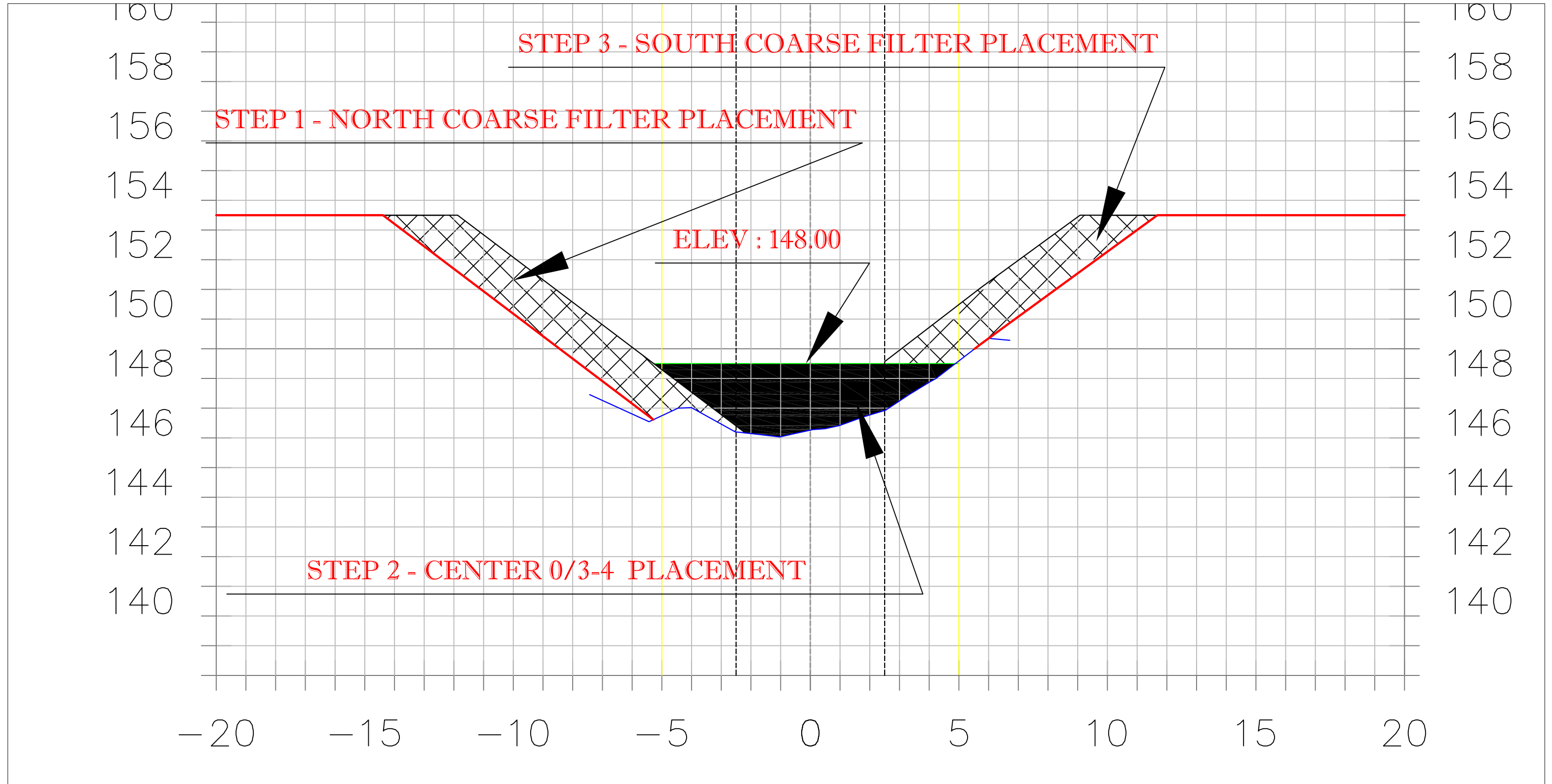
DATE

2018-08-14

2018-08-14

2018-08-14

0-357 TO 0+371 STEP FOR LOWEST PART SOUTH EMBANKMENT
AMARUQ WAIL TAIL DIKE CONSTRUCTION
CONTRACT # 11-811



PROJECT : WTD Construction
PROJECT #: 658309 DATE: 14/08/2018
DOCUMENT #: 20180814-DS-01 TIME: 14:41
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: coarse filter.
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+150 to 0+085</u>	Station:	<u>0+355 to 0+375</u>
Inclination:	<u>1.3:1 to 1.5:1</u>	Details:	_____
ELEVATION :	☐ varies <u>1535</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of <u>ice/snow/water</u>	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock	✓		✓		
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
5	Placement of coarse filter according to specs	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Angie Arbaciaza
Maxime Côté
Pier-Éric McDonald

SIGNATURE

[Signature]
[Signature]
[Signature]

DATE

14/08/2018
2018/08/14th
2018/08/14

PROJECT : Whale Tail Dike Construction
PROJECT #: 658309 DATE: 2018-08-16
DOCUMENT #: 20180816-DS-01 TIME: 10:40
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter fill placement
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station <u>0+375 to 0+395</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					
7. Foundation on bedrock					—
8. Key-in depth into bedrock					—
9. Water quality					—
10. CB slurry viscosity and density					—
11. Elevation of CB Piles					—
12. Primary piles strength (Minimum of 50 kPa UCS)					—
13. Keying between primary and secondary					—
14. Cracks on top of cutoff wall					—

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					—
16. As built survey completed					—
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
1	slope of coarse filter not checked. But width of fill and slope of rock fill against which the coarse filter is placed is measured. Therefore, actual slope of coarse filter to be checked after getting results from Bathymetric survey.			✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Tezera Azmatch
Maxine Côté
Pier-Eric McNeill

SIGNATURE

[Signature]
[Signature]
[Signature]

DATE

Aug. 16, 2018
16th August, 2018
August 16th 2018

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309
DOCUMENT #: 20180817-NS-01
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-17
TIME: 5:20
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: COARSE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+395 to 0+415</u> Inclination: <u>≈ 1.34:1V</u> ELEVATION : ☐ varies <u>NEST AT 153.5</u> m	Station: <u>0+375 TO 0+395</u> Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed	✓		✓		
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
5	HANDLING + PLACEMENT MEET THE SPECS	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis J. Carbone

Pier-Eric McDonald

SIGNATURE

[Handwritten Signature]

[Handwritten Signature]

[Handwritten Signature]

DATE

2018-08-17

2018-08-17

2018-08-17

PROJECT : WTD CONSTRUCTION

PROJECT #: 658309

DOCUMENT #: 20180818-NS-01

(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-18

TIME: 5:05

(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+415 TO 455 (NORTH)</u>	Station: <u>0+395 TO 0+415</u>
Inclination:	<u>0+415 TO 475 (SOUTH)</u>	Details: _____
ELEVATION	<u>≈ 1.3H : 1V</u>	
:	☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed	✓		✓		
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
1	WIDTH OF COARSE FILTER EXCEEDS 3.0m AT SOME LOCATIONS (AT THE CREST, EL. 153.5m) DUE TO METHODOLOGY PROPOSED BY AGNIKO EAGLE (ELEVATION BUFFER FOR COARSE FILTER TOE PLACEMENT)	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU SÉZÉQUEL

Denis J. Caribon

Rev. Engr. [Signature]

SIGNATURE

[Signature]

DATE

2018-08-18

2018-08-18

2018-08-18

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180818-DS-03
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: August 18, 2018
TIME: 17:54
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter placement
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+455 to 0+495</u>	Station:	<u>0+435 to 0+455</u>
Inclination:		Details:	
ELEVATION	<u>153.5</u> m		
: ☒ varies			

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	☒		☒		
2. Free of ice/snow/water ☒	☒		☒		
3. Cleaning of trench and/or pile bottom	☒		☒		
4. Gradation (visual)	☒		☒		
5. Placement (lift thickness, segregation, etc.)	☒		☒		
6. Compaction	☒		☒		
7. Foundation on bedrock					<u>—</u>
8. Key-in depth into bedrock					<u>—</u>
9. Water quality					<u>—</u>
10. CB slurry viscosity and density					<u>—</u>
11. Elevation of CB Piles					<u>—</u>
12. Primary piles strength (Minimum of 50 kPa UCS)					<u>—</u>
13. Keying between primary and secondary					<u>—</u>
14. Cracks on top of cutoff wall					<u>—</u>

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309
DOCUMENT #: 20180819-NS-02
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-19
TIME: 5:45
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station: <u>0+495 to 0+515</u>	Station: <u>0+475 to 0+495</u>
Inclination: <u>≈ 1.3H : 1V</u>	Details: _____
ELEVATION : ☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		✓
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed	✓		✓		
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU SEZÉOUZ

Denis J. Coughlin

Pier-Emil McDonald

SIGNATURE

Maths. final
2 Jan 2016
further find

DATE

2018-08-19

2018-08-19

2018-08-19

PROJECT : WTD CONSTRUCTION
PROJECT # : 658309
DOCUMENT # : 2018 08 14 - NS-06
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-14
TIME: 5:56
(24 hour clock)

APPROVAL FOR :

☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>≈ 0+740 to 0+770</u>	Station:	_____
Inclination:	<u>1.5 H: 1 V</u>	Details:	_____
ELEVATION :	☐ varies <u>≈ 155.0</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
5	THICKNESS IS 1.0m AND THE SPECS (DRAWINGS)		✓		✓
	INDICATE A THICKNESS OF 1.5m				

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

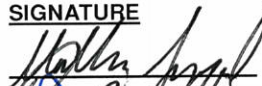
NAME

MATHIEU SÉZÉQUEL

Denis J. Coulombe

Patrice Gagnon

SIGNATURE







DATE

2018-08-19

2018-08-19

2018-08-29

APPROVAL FORM

**DUPLICATE - REFER TO
20180819-NS-02 FOR
ORIGINAL.**

PROJECT : WTD Construction
PROJECT #: 658309 DATE: August 19, 2018
DOCUMENT #: 20180819-DS-01 TIME: 11:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Coarse filter inside trench
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+495 to 0+515</u>	Station:	<u>0+475 to 0+495</u>
Inclination:		Details:	
ELEVATION : ☐ varies <u>153.5</u> m			

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:			
	QA		QC	
	Y	N	Y	N
1. Lines and grades	✓		✓	
2. Free of ice/snow/ water	✓		✓	
3. Cleaning of trench and/or pile bottom	✓		✓	
4. Gradation (visual)	✓		✓	
5. Placement (lift thickness, segregation, etc.)	✓		✓	
6. Compaction				✓
7. Foundation on bedrock				✓
8. Key-in depth into bedrock				✓
9. Water quality				✓
10. CB slurry viscosity and density				✓
11. Elevation of CB Piles				✓
12. Primary piles strength (Minimum of 50 kPa UCS)				✓
13. Keying between primary and secondary				✓
14. Cracks on top of cutoff wall				✓

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309
DOCUMENT #: 20180820-NS-02
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-20
TIME: 5:55
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Rockfill / coarse filter placement
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>		<u>PREVIOUS APPROVALS</u>
Station <u>UPSTREAM</u> <u>0+790 to 0+808</u>	Station: _____	
Inclination: _____	Details: _____	
ELEVATION : ☐ varies <u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					
4. Gradation (visual)	✓		✓		✓
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309
DOCUMENT #: 20180820-NS-04
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-20
TIME: 6:00
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+515 to 0+555 southside</u>	Station: <u>0+495 to 0+515</u>
Inclination:	<u>≈ 1.34 : 1V</u>	Details: _____
ELEVATION	☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom			✓		
4. Gradation (visual)	✓		✓		✓
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

MATHIEU SÉZÉQUEL

Denis J. Coulombe

Pier-Enz McDonald

SIGNATURE

SIGNATURE




DATE

2018-08-20

2018-08-20

2018-08-20

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180820-DS-02
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: August 20, 2018
TIME: 14:00
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter placement
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+515 to 0+555 (North side)</u>	Station: <u>0+515 to 0+515 (South side)</u>
Inclination:		Details: _____
ELEVATION	☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/ water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-21
DOCUMENT #: 20180821-NS-01 TIME: 4:55
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: COARSE FILTER PLACEMENT
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+555 to 0+575</u> Inclination: <u>≈ 1.3H: 1V</u> ELEVATION : ☐ varies <u>153.5</u> m	Station: <u>0+515 to 0+555 (NORTH SIDE)</u> Details: <u>0+515 to 0+555 SOUTH SIDE WAS ALREADY APPROVED</u>

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309
DOCUMENT #: 20180821-NS-02
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-21
TIME: 5:10
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: COARSE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+220 to 0+240, NORTH SIDE</u>	Station: _____
Inclination:	<u>1.5 H : 1 V</u>	Details: _____
ELEVATION	☐ varies <u>157.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

MATHEU SEZÉQUEL

Davis L. Cook

Dr. B.

SIGNATURE

Thurs. 6. 21

[Signature]

2. Handwritten text

[Handwritten signature]

DATE

2018-08-21

 $2 = 10 \cdot 102 \cdot 71$

2015-55 =
2016-21 = 71

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180821-DS-04

(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 21, 2018
TIME: 11:00
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Coarse fill.
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+130 to 0+380</u>	Station: _____
Inclination:	<u>(Northside, etc)</u>	Details: _____
ELEVATION	☐ varies <u>155</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock	✓		✓		
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

NAME
Teresa Azmat
Maxine Cote
Patrice Gagnon

SIGNATURE

SIGNATURE

[Handwritten signature]

DATE

Aug. 21, 2018
2018-08-21
2018-08-21

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180821-DS-05
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 21, 2018
TIME: 11:20
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse fill placement
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+130 to 0+220</u> Inclination: <u>C Northside, (1.5)</u> ELEVATION : ☐ varies <u>157</u> m	Station: _____ Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:			
	QA		QC	
	Y	N	Y	N
1. Lines and grades	✓		✓	
2. Free of ice/snow/water	✓		✓	
3. Cleaning of <u>trench and/or pile</u> bottom	✓		✓	
4. Gradation (visual)	✓		✓	
5. Placement (lift thickness, segregation, etc.)	✓		✓	
6. Compaction	✓		✓	
7. Foundation on bedrock			✓	
8. Key-in depth into bedrock				✓
9. Water quality				✓
10. CB slurry viscosity and density				✓
11. Elevation of CB Piles				✓
12. Primary piles strength (Minimum of 50 kPa UCS)				✓
13. Keying between primary and secondary				✓
14. Cracks on top of cutoff wall				✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Lezera Azmat
Maxine Côté
Patrice Capran

SIGNATURE

Intsch
G

DATE

Aug. 21, 2018
2018-08-21
2018-08-21

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180821-DS-06
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 21, 2018
TIME: 11:30
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse fill
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station: <u>0+240 to 0+300</u>	Station: _____	
Inclination: <u>(North side, d/s)</u>	Details: _____	
ELEVATION : ☐ varies <u>157</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock	✓		✓		
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

NAME
Teresa Azmaha
Maxine Cole
Alice Gagnon

SIGNATURE

SIGNATURE

[Handwritten signature]

DATE _____

Aug. 20, 2018
2018-08-21
~~2018-08-24~~

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 21, 2018
DOCUMENT #: 20180821-DS-08 TIME: 17:55
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: coarse filter placement
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+575 to 0+595</u>	Station: <u>0+555 to 0+575</u>
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/ <u>water</u>	✓		✓		
3. Cleaning of trench <u>and/or pile</u> bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓				✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309
DOCUMENT #: 20180822-NS-03
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018-08-22
TIME: 4:25
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: COARSE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION <u>BOTH UPSTREAM AND DOWNSTREAM</u>		PREVIOUS APPROVALS	
Station	<u>0+727 TO 0+739</u>	Station:	<u>0+790 TO 0+808</u>
Inclination:	<u>1.54:1V</u>	Details:	_____
ELEVATION	☐ varies <u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed	✓		✓		
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

MATTHEW TEEBOM

Denis J. Coulombe

Patrice Gagne

SIGNATURE

Markus J. J. J.

[Handwritten signature]

[Handwritten signature]

DATE

218-08-22

2008-08-22

2018-06-22

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-22
DOCUMENT #: 2018 0822-NS-04 TIME: 4:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: COARSE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station <u>0+385 TO 0+483, DOWNSTREAM</u> Inclination: <u>1.5H: 1V</u> ELEVATION : ☐ varies <u>155</u> m	Station: _____ Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	<u>VERIFICATIONS DONE BY:</u>				
	<u>QA</u>		<u>QC</u>		<u>N/A</u>
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
All	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU SÉZÉQUEL

Jos J. Carlsbecker

Patrice Gagnon

SIGNATURE

[Handwritten Signature]

DATE

2018-08-20

2018-08-22

2019-04-22

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180822-DS-02
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 22, 2018
TIME: 17:30
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+483 to 0+540</u> Inclination: <u>Coarse stream</u> ELEVATION : ☐ varies <u>1.55</u> m	Station: <u>0+385 to 0+483</u> Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock	✓		✓		
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 22, 2018
DOCUMENT #: 20180822-DS-23 TIME: 17:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Coarse filter
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+390 to 0+410</u>	Station:	_____
Inclination:	<u>Coarse stream</u>	Details:	_____
ELEVATION	☐ varies <u>15 ft</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:			
	QA		QC	
	Y	N	Y	N
1. Lines and grades	✓		✓	
2. Free of ice/snow/water	✓		✓	
3. Cleaning of trench and/or pile bottom	✓		✓	
4. Gradation (visual)	✓		✓	
5. Placement (lift thickness, segregation, etc.)	✓		✓	
6. Compaction	✓		✓	
7. Foundation on bedrock				
8. Key-in depth into bedrock				✓
9. Water quality				✓
10. CB slurry viscosity and density				✓
11. Elevation of CB Piles				✓
12. Primary piles strength (Minimum of 50 kPa UCS)				✓
13. Keying between primary and secondary				✓
14. Cracks on top of cutoff wall				✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

NAME
 Terez Azmota
 Maxine Cotic
 Patrice Gagnon

SIGNATURE

Antonia
Gay

DATE

Aug 22, 2018
18-08-22
2018-08-22

PROJECT : WTD Construction
PROJECT #: 658309
DOCUMENT #: 20180822-DS-07
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 22, 2018
TIME: 17:30
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+595 to 0+615</u> Inclination: <u>(upstream)</u> ELEVATION : ☐ varies <u>153.5</u> m	Station: <u>0+575 to 0+595</u> Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/ water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

Tezera Ahmed
maxine cate
Patrice Gagnon

SIGNATURE

~~Intouch~~
m Gg

DATE

Aug. 22, 2018
18-08-22
2018-08-22

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-23
DOCUMENT #: 20180823-NS-01 TIME: 4:45
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION	<u>0+595 TO 0+633 DOWNSTREAM</u>	PREVIOUS APPROVALS	
Station	<u>0+615 TO 0+633 UPSTREAM</u>	Station:	<u>0+595 TO 0+615, UPSTREAM</u>
Inclination:	<u>≈ 1.34:1V</u>	Details:	_____
ELEVATION :	☐ varies <u>153.5</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed	✓		✓		
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
ALL	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis J. Coulombe

Patrice Gagné

SIGNATURE

Mathieu Jézéquel

Denis J. Coulombe

Patrice Gagné

DATE

2018-08-23

2018-08-23

2018-08-23

PROJECT : WTD construction
PROJECT #: 658309 DATE: Aug. 23, 2018
DOCUMENT #: 20180823-DS-03 TIME: 17:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: coarse filter placement
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+633 to 0+655</u>	Station: <u>0+615 to 0+633 (old)</u>
Inclination: _____	Details: <u>0+595 to 0+633 (old)</u>
ELEVATION : ☐ varies <u>1535</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/ water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-24
DOCUMENT #: 20180824-NS-01 TIME: 4:20
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+655 TO 0+674</u>	Station: <u>0+633 TO 0+655</u>
Inclination: <u>1.3H: 1V</u>	Details: _____
ELEVATION : ☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed	✓		✓		
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
1	WIDTH OF COARSE FILTER AT THE CREST IS SUFFICIENT (~3.0m), HOWEVER THE AS-BUILT SURVEY WILL BE MANDATORY TO ASSESS THE COARSE FILTER THICKNESS ALONG THE SLOPES.	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis J. Loubé

Patrice Gagnon

SIGNATURE

[Signature]

[Signature]

[Signature]

DATE

2018-08-24

2018-08-24

2018-08-24

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-24
DOCUMENT #: 20180824-NS-04 TIME: 4:50
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+540 TO 0+590, NORTH SIDE</u>	Station:	<u>0+483 TO 0+540</u>
Inclination:	<u>1.5 H: 1 V</u>	Details:	<u>20180824-NS-04</u>
ELEVATION :	☐ varies <u>155.0</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
6	COMPACTION WAS ACHIEVED WITH AN EXCAVATOR AND MEETS THE TECHNICAL SPECIFICATIONS	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHEU JEZEQUEL

Denis J. Gaudin

Patrice Gagnon

SIGNATURE

[Handwritten Signature]

[Handwritten Signature]

[Handwritten Signature]

DATE

2018-08-24

2018-08-24

2018-08-24

PROJECT : WFO Construction
PROJECT #: 658309 DATE: Aug. 24, 2018
DOCUMENT #: 20180824-DS-02 TIME: 17:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter placement
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station: <u>0+674 to 0+702</u>	Station: <u>0+655 to 0+674</u>
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>153.5</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>		<u>VERIFICATIONS DONE BY:</u>				
(Add additional items if needed)		QA		QC		N/A
		Y	N	Y	N	
1.	Lines and grades	✓		✓		
2.	Free of ice/snow/ water	✓		✓		
3.	Cleaning of trench and/or pile bottom	✓		✓		
4.	Gradation (visual)	✓		✓		
5.	Placement (lift thickness, segregation, etc.)	✓		✓		
6.	Compaction					✓
7.	Foundation on bedrock					✓
8.	Key-in depth into bedrock					✓
9.	Water quality					✓
10.	CB slurry viscosity and density					✓
11.	Elevation of CB Piles					✓
12.	Primary piles strength (Minimum of 50 kPa UCS)					✓
13.	Keying between primary and secondary					✓
14.	Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

SIGNATURE

DATE

PROJECT : WSD Construction
PROJECT #: 658309 DATE: Aug. 24, 2018
DOCUMENT #: 20180824 - DS-05 TIME: _____
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station: <u>0+570 to 0+600</u>	Station: <u>0+540 to 0+570</u>
Inclination: <u>(North, 21.5)</u>	Details: _____
ELEVATION : ☐ varies <u>155</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

NAME Tezra Azmath
Maxine Cote
Patrice Gagnon

SIGNATURE

Signature



DATE

Aug. 24
18-08-24
20-08-25

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 24, 2018
DOCUMENT #: 20180824-05-06 TIME: _____
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station <u>0+410 to 0+520</u>	Station: <u>0+390 to 0+410</u>
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>157</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTO Construction
PROJECT #: 658309 DATE: Aug. 25, 2018
DOCUMENT #: 20180825-DS-02 TIME: 17:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: coarse filter placement - east Abut. (upstream side)
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+740 to 0+835</u>	Station:	<u>at</u>
Inclination:		Details:	
ELEVATION : ☐ varies <u>157</u> m			

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>		<u>VERIFICATIONS DONE BY:</u>				
(Add additional items if needed)		QA		QC		N/A
		Y	N	Y	N	
1.	Lines and grades	✓		✓		
2.	Free of ice/snow/water	✓		✓		
3.	Cleaning of trench and/or pile bottom	✓		✓		
4.	Gradation (visual)	✓		✓		
5.	Placement (lift thickness, segregation, etc.)	✓		✓		
6.	Compaction	✓		✓		
7.	Foundation on bedrock					✓
8.	Key-in depth into bedrock					✓
9.	Water quality					✓
10.	CB slurry viscosity and density					✓
11.	Elevation of CB Piles					✓
12.	Primary piles strength (Minimum of 50 kPa UCS)					✓
13.	Keying between primary and secondary					✓
14.	Cracks on top of cutoff wall					✓

DETAILS

APPROVED BY:

APPROVED BY:

NAME

SIGNATURE

DATE

Aug. 25, 2018

18-08-25

2019-08-26

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-26
DOCUMENT #: 20180826-NS-02 TIME: 4:40
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: COARSE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+600 TO 0+652, DOWNSTREAM</u>	Station:	<u>0+590 TO 0+600</u>
Inclination:	<u>1.5 H: 1 V</u>	Details:	_____
ELEVATION	☐ varies <u>155.0</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATTHIEU JÉZÉQUEL

Dennis J. Coulombe

Patrice Gagnon

SIGNATURE

1. Shirley Taylor
 2. Dr. Taylor
 3. Dr. Taylor

DATE

2018-08-26

2018-08-26

2018-08-26

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-26
DOCUMENT #: 20180826-NS-03 TIME: 4:45
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: COARSE FILTER (KEY TRENCH)
- ☐ CB cutoff wall approval
- ☐ Other: _____

<u>LOCATION</u>	<u>PREVIOUS APPROVALS</u>
Station <u>0+702 to 0+728, NORTH SIDE</u> Inclination: <u>~ 1.3H: 1V</u> ELEVATION : ☐ varies <u>153.5</u> m	Station: <u>0+674 to 0+702</u> Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	<u>VERIFICATIONS DONE BY:</u>				
	<u>QA</u>		<u>QC</u>		<u>N/A</u>
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed	✓		✓		
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Dame V. G. G. G.

Patrice Gagnon

SIGNATURE

Markus J. J. J.

Al. Neapoli

14 G

DATE _____

2018-08-26

2018-08-26

2018-08-26

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 26, 2018
DOCUMENT #: 20180826-DS-01 TIME: _____
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+702 to 0+728</u> Inclination: <u>cup stream</u> ELEVATION : ☐ varies <u>153.5</u> m	Station: _____ Details: _____

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/ water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction					✓
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD Construction

PROJECT #: 658309

DOCUMENT #: 20180826-DS-04

(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: Aug. 26, 2018

TIME: _____
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Reinforced Coarse filter
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS
Station	<u>0+745 to 0+805</u>	Station: _____
Inclination:	<u>(Downstream)</u>	Details: _____
ELEVATION	☐ varies <u>1.57</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 26, 2018
DOCUMENT #: 20180826-DS-07 TIME: 17:50
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse fill
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+520 to 0+645</u>	Station: <u>0+410 to 0+520</u>
Inclination: <u>(downstream)</u>	Details: _____
ELEVATION : ☐ varies <u>157</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>		<u>VERIFICATIONS DONE BY:</u>				
(Add additional items if needed)		QA		QC		N/A
		Y	N	Y	N	
1. Lines and grades		✓		✓		
2. Free of ice/snow/water		✓		✓		
3. Cleaning of trench and/or pile bottom		✓		✓		
4. Gradation (visual)		✓		✓		
5. Placement (lift thickness, segregation, etc.)		✓		✓		
6. Compaction		✓		✓		
7. Foundation on bedrock						✓
8. Key-in depth into bedrock						✓
9. Water quality						✓
10. CB slurry viscosity and density						✓
11. Elevation of CB Piles						✓
12. Primary piles strength (Minimum of 50 kPa UCS)						✓
13. Keying between primary and secondary						✓
14. Cracks on top of cutoff wall						✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Tezera Azmatel
Margine Cote
Patrice Capron

SIGNATURE

[Signature]
[Signature]
[Signature]

DATE

Aug. 26, 2018
18-08-26
2018-08-27

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-27
DOCUMENT #: 20180827-NS-02 TIME: 3:30
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+317 to 0+383</u>	Station:	_____
Inclination:	_____	Details:	_____
ELEVATION : ☐ varies	<u>154.2</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
1	THIS SECTION WILL BE RAISED TO EL. 157.0m FOLLOWING DYNAMIC COMPACTION OF FINE FILTER MATERIAL AT EL. 154.2m	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHIEU JÉZÉQUEL

Denis L. Coulombe

Patrice Gagnon

SIGNATURE

[Signature]

[Signature]

[Signature]

DATE

2018-08-27

2018-08-27

2018-08-27

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-27
DOCUMENT #: 20180827-NS-06 TIME: 5:25
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: COARSE FILTER
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+652 to 0+695</u>	Station: <u>0+600 to 0+652</u>
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>155.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM	APPROVED BY:			
	QA		QC	
	Y	N	Y	N
ALL	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATTHEW SEZÉQUEL

Chris 2 Comblonde

Patrice Cognon

SIGNATURE

[Signature]

[Signature]

[Signature]

DATE

2018-08-27

2018-08-27

2018-08-27

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 27, 2018
DOCUMENT #: 20180827-DS-01 TIME: 17:20
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: coarse filter
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+695 to 0+755</u>	Station:	<u>0+652 to 0+695</u>
Inclination:	<u>(downstream)</u>	Details:	_____
ELEVATION	☐ varies <u>155</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>		<u>VERIFICATIONS DONE BY:</u>				
(Add additional items if needed)		QA		QC		N/A
		Y	N	Y	N	
1.	Lines and grades	✓		✓		
2.	Free of ice/snow/water	✓		✓		
3.	Cleaning of trench and/or pile bottom	✓		✓		
4.	Gradation (visual)	✓		✓		
5.	Placement (lift thickness, segregation, etc.)	✓		✓		
6.	Compaction	✓		✓		
7.	Foundation on bedrock					✓
8.	Key-in depth into bedrock					✓
9.	Water quality					✓
10.	CB slurry viscosity and density					✓
11.	Elevation of CB Piles					✓
12.	Primary piles strength (Minimum of 50 kPa UCS)					✓
13.	Keying between primary and secondary					✓
14.	Cracks on top of cutoff wall					✓

PROJECT : WTD Construction
PROJECT #: 658309 DATE: Aug. 27, 2018
DOCUMENT #: 20180827-DS-02 TIME: 17:20
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+689 to 0+745*</u> Inclination: <u>downstream</u> ELEVATION: ☐ varies <u>157</u> m	Station: <u>0+745 to 0+805*</u> Details: <u>20180826-DS-04*</u>

* CORRECTED ON 2018-08-28. *Markus Appel*

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom	✓		✓		
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					
16. As built survey completed					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

Tezara Azmaly
M. Bernand
Patrice Gaynon

SIGNATURE

Handwritten signature: *[Signature]*

DATE _____

Aug. 27, 2018
27-08-2018
2018-08-28

PROJECT : WTO CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-28
DOCUMENT #: 20180828-NS-02 TIME: 5:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+645 to 0+689</u>	Station:	<u>0+689 to 0+745</u>
Inclination:		Details:	
ELEVATION : ☐ varies	<u>157.0</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTO CONSTRUCTION
PROJECT #: 658 309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-14 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+095 TO 0+130, NORTH SIDE</u>	Station:	_____
Inclination:	_____	Details:	_____
ELEVATION : ☐ varies <u>155.0</u> m			

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

COMPLIANCE WITH TECHNICAL SPECIFICATIONS: (Add additional items if needed)	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-15 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+755 TO 0+815, NORTH SIDE</u>	Station:	_____
Inclination:	_____	Details:	_____
ELEVATION : ☐ varies <u>155.0</u> m			

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u> (Add additional items if needed)	<u>VERIFICATIONS DONE BY:</u>				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					
16. As built survey completed					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME _____

MATHEU JÉZÉQUEL

molecular

Patrice Gagnon

SIGNATURE

[Signature]

~~Answer~~

Van Goy

DATE

2018-08-29

201-08-29

2018-08-29

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-29
DOCUMENT #: 20180829-NS-16 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION	PREVIOUS APPROVALS
Station: <u>0+065 TO 0+130, NORTH SIDE</u>	Station: _____
Inclination: _____	Details: _____
ELEVATION : ☐ varies <u>157.0</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

PROJECT : WTD CONSTRUCTION
PROJECT #: 658309 DATE: 2018-08-24
DOCUMENT #: 20180824-NS-17 TIME: 2:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: COARSE FILTER
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+805 TO 0+835, NORTH SIDE</u>	Station:	_____
Inclination:	_____	Details:	_____
ELEVATION	☐ varies <u>157.0</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

<u>COMPLIANCE WITH TECHNICAL SPECIFICATIONS:</u>		<u>VERIFICATIONS DONE BY:</u>				
(Add additional items if needed)		QA		QC		N/A
		Y	N	Y	N	
1. Lines and grades		✓		✓		
2. Free of ice/snow/water		✓		✓		
3. Cleaning of trench and/or pile bottom						✓
4. Gradation (visual)		✓		✓		
5. Placement (lift thickness, segregation, etc.)		✓		✓		
6. Compaction		✓		✓		
7. Foundation on bedrock						✓
8. Key-in depth into bedrock						✓
9. Water quality						✓
10. CB slurry viscosity and density						✓
11. Elevation of CB Piles						✓
12. Primary piles strength (Minimum of 50 kPa UCS)						✓
13. Keying between primary and secondary						✓
14. Cracks on top of cutoff wall						✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)			✓		✓
16. As built survey completed			✓		✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

APPROVED BY:

[illegible]

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

MATHEU JEZEQUEL

SIGNATURE

SIGNATURE

Mark J. ...

Michael ...

Pat ...

DATE

2018-08-29
2018-08-29
2018-08-29

PROJECT : WTD CONSTRUCTION
PROJECT #: 658 309 DATE: 2018-08-31
DOCUMENT #: 20180831-NS-02 TIME: 3:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR : ☐ Foundation approval (footprint)
☐ Foundation approval (key trench)
☒ Fill placement: Coarse Filter
☐ CB cutoff wall approval
☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+320 to 0+385</u>	Station:	<u>0+320 to 0+385</u>
Inclination:	<u>1.54:1V</u>	Details:	<u>Approved at elevation</u>
ELEVATION	<u>155</u> m		<u>154.2 m.</u>
	☐ varies		<u>20180827-NS-02</u>

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:			
	QA		QC	
	Y	N	Y	N
1. Lines and grades	✓		✓	
2. Free of ice/snow/water	✓		✓	
3. Cleaning of trench and/or pile bottom				✓
4. Gradation (visual)	✓		✓	
5. Placement (lift thickness, segregation, etc.)	✓		✓	
6. Compaction	✓		✓	
7. Foundation on bedrock				✓
8. Key-in depth into bedrock				✓
9. Water quality				✓
10. CB slurry viscosity and density				✓
11. Elevation of CB Piles				✓
12. Primary piles strength (Minimum of 50 kPa UCS)				✓
13. Keying between primary and secondary				✓
14. Cracks on top of cutoff wall				✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

		APPROVED BY:			
		QA		QC	
ITEM		Y	N	Y	N
ALL	MEETS THE SPECIFICATION REQUIREMENTS.	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

JONATHAN LEBLANC
Cedric Fillon Tremblay
Adrice Gagnon

SIGNATURE

Jonathan Leblanc
Cedric Fillon Tremblay
Adrice Gagnon

DATE

2018-08-31
2018-08-31
2018-08-31

PROJECT : WTD Construction
PROJECT #: 658309 DATE: 31/08/2018
DOCUMENT #: 20180831-DS-01 TIME: 9:00
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift (24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☒ Fill placement: Coarse filter
- ☐ CB cutoff wall approval
- ☐ Other: _____

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+320 to 0+385</u>	Station:	<u>0+320 to 0+385</u>
Inclination:	<u>1.5%: 1V</u>	Details:	<u>upto el. 155m.</u>
ELEVATION	☐ varies <u>157</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom					✓
4. Gradation (visual)	✓		✓		
5. Placement (lift thickness, segregation, etc.)	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock					✓
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed					✓
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
5	Placement meets specification requirements	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

NAME

Angie Arceiza
 Virginia Gray
 Patricia Cagran

SIGNATURE

Angie Arceiza
 Virginia Gray
 Patricia Cagran

DATE

2018-08-31
 2018-08-31
 2018-08-31

Appendix H-5

Dynamic Compaction

As-Built Report of Whale Tail Dike		Original -V.00
2020-06-05	658309-0000-56ER-0001	Technical Report

PROJECT : WTO construction

PROJECT #: 658309

DOCUMENT #: 20180831-DS-02

(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 31/08/2018

TIME: 10:30

(24 hour clock)

APPROVAL FOR :

☐ Foundation approval (footprint)

☐ Foundation approval (key trench)

☐ Fill placement: _____

☐ CB cutoff wall approval

☒ Other: Dynamic compaction

LOCATION		PREVIOUS APPROVALS
Station	<u>0+335 to 0+380</u>	Station: _____
Inclination:	<u>—</u>	Details: _____
ELEVATION	☐ varies <u>154.2</u> m	

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:				
	QA		QC		N/A
	Y	N	Y	N	
1. Lines and grades	✓		✓		
2. Free of ice/snow/water	✓		✓		
3. Cleaning of trench and/or pile bottom			✓		
4. Gradation (visual) <u>- Fine to Her placement in craters</u>	✓		✓		✓
5. Placement (lift thickness, segregation, etc.) " "	✓		✓		
6. Compaction	✓		✓		
7. Foundation on bedrock			✓		
8. Key-in depth into bedrock					✓
9. Water quality					✓
10. CB slurry viscosity and density					✓
11. Elevation of CB Piles					✓
12. Primary piles strength (Minimum of 50 kPa UCS)					✓
13. Keying between primary and secondary					✓
14. Cracks on top of cutoff wall					✓

	QA		QC		N/A
	Y	N	Y	N	
15. CB mix/slurry tested (UCS, permeability, and pinhole tests)					✓
16. As built survey completed	✓		✓		
17. Platform elevation for dynamic compaction	✓		✓		
18. DC prints location marked	✓		✓		
19. Drop height (18m)	✓		✓		
20. Tamper weight (15 ton)	✓		✓		
21. Number of impacts per menard design	✓		✓		
22. Crater volumes measured	✓		✓		
23. Execution of Phases 1 to 4 (menard drawing 200C and 200)	✓		✓		
24. No cross contamination between fine and coarse filters	✓		✓		
25.					

DETAILS

(Refer to list above for item #)

ITEM		APPROVED BY:			
		QA		QC	
		Y	N	Y	N
6.	Dynamic compaction performed according to menard's work program (document -Rev.1 from August 24 th 2018). See also attached the compactive energy for zone DC-11 (which is not present in their work program). this form is only for zone DC-11, el. 154.2 m and between st. 0+335 and 0+380 (Phases 1 to 4 completed).	✓		✓	

APPROVED BY:

QA REPRESENTATIVE

QC REPRESENTATIVE

OWNER'S REPRESENTATIVE

CONTRACTOR'S REPRESENTATIVE

NAME

Angie Arbuliza
Melina Gury
Patrice Cayon
Jonathan A-C

SIGNATURE






DATE

31/08/2018
31/08/2018
2018/09-31
2018/08/31

De : [Jonathan Audet-Croft](#)
A : [SM_Amarug](#)
Cc : [melina.guay](#); "[patrice.gagnon@agnicoeagle.com](#)"
Objet : TR: 18M004_KCG_039_AV_DC-11 Energy to be updated
Date : August-31-18 8:28:07 AM
Pièces jointes : [image001.png](#)
[image002.png](#)
[image003.png](#)

FYI

De : VIATEAU Adrien [<mailto:adrien.viateau@menardcanada.ca>]

Envoyé : 31 août 2018 07:27

À : Jonathan Audet-Croft <Jonathan.Audet-Croft@groupegilbert.com>

Cc : Christopher Gilbert <Christopher.Gilbert@groupegilbert.com>

Objet : 18M004_KCG_039_AV_DC-11 Energy to be updated

DC-11 energy applied that on-site will be incorporated in the next revision of the work program following confirmation of Dynamic Compaction extent (start and end PK)

TABLE 2.6			
COMPACTIVE ENERGY ZONE DC-11			
Phase no	Number of points	Number of drops	Compactive energy (t*m)
1	5	55	74,250
2	5	35	47,250
3	10	8	21,600
4	42	2	22,680
TOTAL			165,780
Nominal area (m2)			450
Energy per m2 (t*m/m2)			368

Adrien Viateau, ing.jr.

Chargé de projet
Project Manager



Ligne Directe / Direct line 450-449-2633 Ext. 1016
Cellulaire / Mobile 514-894-0123
Courriel / E-mail adrien.viateau@menardcanada.ca

1590 Ampère, bureau 202
Boucherville, QC J4B 7L4

Restez en contact avec nous / Connect with us



KIVALLIQ CONTRACTORS
GROUP LTD

Contract	Service	Type	Sequence	Revision
651298	CON	DCDR	001	0
AEM Document #:				

DYNAMIC COMPACTION DAILY REPORT

Contract Title: Amaruq Project - Whale Tail Dike

Contractor: Kivalliq Contractors Group Ltd.

Crane No.: NCK RAPIER

Weight (kg): 15 000 Drop Height (m): 18

Date: 2018-08-29

Shift (D/N): DAY

Temp (°C): 6 degree

Weather:



PROGRESS

Crater No.	Station	Offset	Phase	Number of Impacts	Crater Volume (m³)	Diameter (m)	Depth (m)	App. Energy Transmitted (T*m)	Backfilling		Compaction	
									C	NC	C	NC
31	0+340	1,288	PH1	65	18,28	4,8	2	17550	☒	☐	☒	☐
32	0+349	1,28	PH1	55	13,69	4,6	1,6	14850	☒	☐	☒	☐
33	0+358	1,271	PH1	55	16,16	4,92	1,7	14850	☒	☐	☒	☐
34	0+367	1,263	PH1	55	15,71	4,5	1,9	14850	☒	☐	☒	☐
35	0+376	1,254	PH1	55	15,71	4,5	1,9	14850	☒	☐	☒	☐
134	0+372	-1,242	PH2	45	10,31	3,9	1,55	12150	☒	☐	☒	☐
133	0+363	-1,233	PH2	35	8,46	4,05	1,2	9450	☒	☐	☒	☐
132	0+354	-1,224	PH2	35	9	4	1,3	9450	☒	☐	☒	☐
131	0+345	-1,216	PH2	35	8,18	3,65	1,35	9450	☒	☐	☒	☐
									☐	☐	☐	☐
									☐	☐	☐	☐
									☐	☐	☐	☐
									☐	☐	☐	☐
									☐	☐	☐	☐
									☐	☐	☐	☐
									☐	☐	☐	☐



DYNAMIC COMPACTION DAILY REPORT

Shift (D/N): DAY

Temp (°C): 5 degree

Weather:  ☒  ☐  ☐  ☐  ☐  ☐

 ☐  ☐

PROGRESS

[illegible]

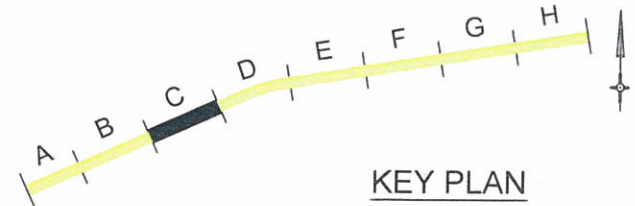
LEGEND

— TREATMENT LIMIT
(10m EFFECTIVE WIDTH)

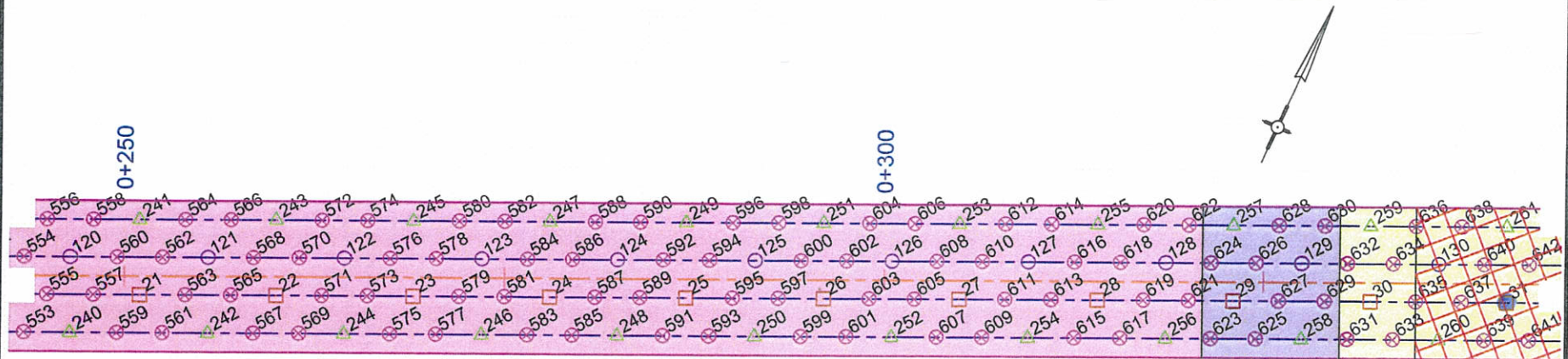
- PHASE 1
- PHASE 2
- △ PHASE 3
- ⊗ PHASE 4

DC DEPTH

- 0m-7.5m
- 0m-9m
- 0m-10m
- 0m-10m from EL 153.5



29/08/2018



REVISIONS			DRAWN BY:	DRAWING REFERENCE:	 menard 1590, RUE AMPÈRE B202 info@menardcanada.ca BOUCHERVILLE, QC TÉL.: (450)449-2633 J4B 7L4 FAX: (450)449-2677			DYNAMIC COMPACTION		WORK:
No.	DATE	DESCRIPTION	DESIGNED BY:	FROM:				DRAWING TITLE:		
0	JUN-08-2018	FOR CONSTRUCTION	A. VIATEAU, EIT.					TREATMENT PROGRAM		
1	JUL-23-2018	FOR CONSTRUCTION						SECTION C		
2	AUG-20-2018	REVISED SURVEYED BEDROCK (AUG 20TH)	VERIFIED BY:	DATE:				1:425 0 4.3 8.6 12.9 m SCALE:		
			H. GUIMONT, P.Eng.	JUL-20-2018				FOLDER: 18M004		
			AGNICO-EAGLE					FORMAT: 11 x 8.5		
								SYSTEM: METRIC		
					FILE: 18M004_DWG-R2.dwg					
					DRAWING N°: 200C					
					DATE: AUG-20-2018					

PROJECT:		WHALE TAIL DYKE AMARUQ MEADOWBANKS	
----------	--	---------------------------------------	--

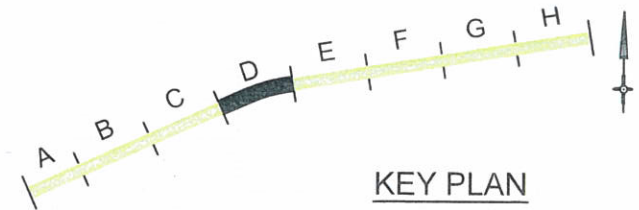
LEGEND

TREATMENT LIMIT
(10m EFFECTIVE WIDTH)

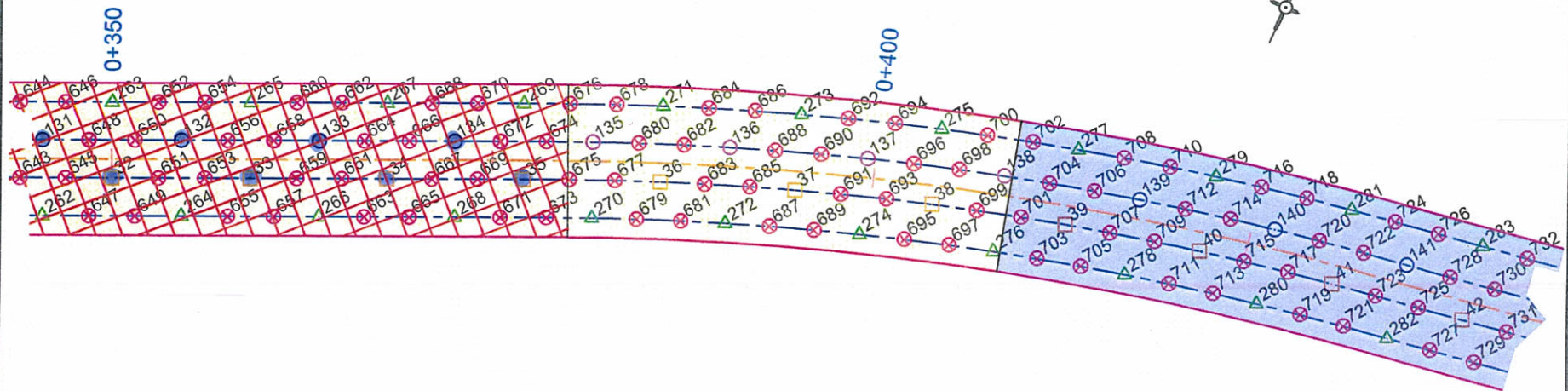
- PHASE 1
- PHASE 2
- △ PHASE 3
- ⊗ PHASE 4

DC DEPTH

- 0m-9m
- 0m-10m
- 0m-10m from EL 153.5



20/08/2018



REVISIONS			DRAWN BY		DRAWING REFERENCE:		DYNAMIC COMPACTION		WORK:
No.	DATE	DESCRIPTION	S. DZANOUNI		651298-2500-4GDD-0004-01		menARD		DRAWING TITLE:
0	JUN-08-2018	FOR CONSTRUCTION	DESIGNED BY:		FROM:		1590, RUE AMPÈRE B202 info@menardcanada.ca		TREATMENT PROGRAM
1	JUL-23-2018	FOR CONSTRUCTION	VERIFIED BY:		DATE:		BOUCHERVILLE, QC TÉL.: (450)449-2633		SECTION D
2	AUG-20-2018	REVISED SURVEYED BEDROCK (AUG 20TH)	H. GUIMONT, P.Eng.		JUL-20-2018		J4B 7L4 FAX: (450)449-2677		
			AGNICO-EAGLE		CLIENT:		PROJECT:		
							WHALE TAIL DYKE AMARUQ		
							MEADOWBANKS		
							1:425		SCALE:
							18M004		0 4.3 8.6 12.9 m
							18M004_DWG-R2.dwg		11 x 8.5
							AUG-20-2018		METRIC
									200D

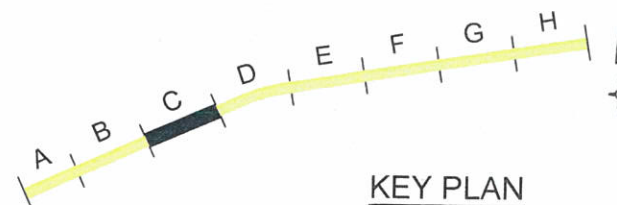
LEGEND

TREATMENT LIMIT
(10m EFFECTIVE WIDTH)

- PHASE 1
- PHASE 2
- △ PHASE 3
- ⊗ PHASE 4

DC DEPTH

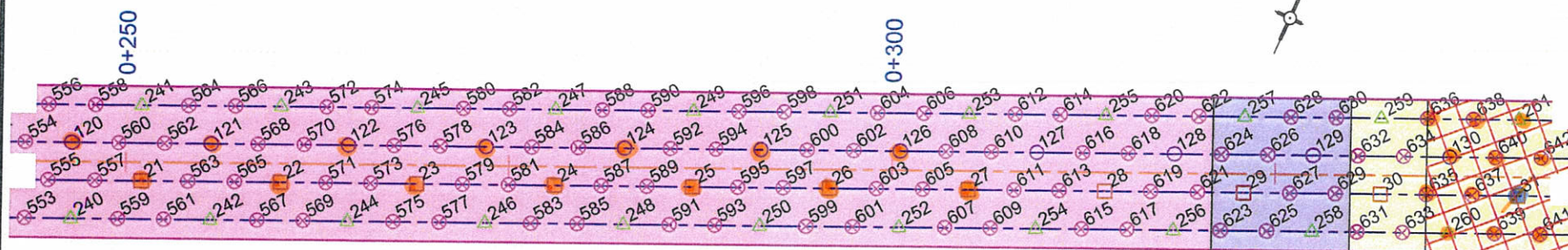
- 0m-7.5m
- 0m-9m
- 0m-10m
- 0m-10m from EL 153.5



KEY PLAN

29/08/2018

30/08/2018



REVISIONS

No.	DATE	DESCRIPTION
0	JUN-08-2018	FOR CONSTRUCTION
1	JUL-23-2018	FOR CONSTRUCTION
2	AUG-20-2018	REVISED SURVEYED BEDROCK (AUG 20TH)

S. DZANOUNI

DRAWN BY:

851298-2500-4GDD-0004-01

DRAWING REFERENCE:

A. VIATEAU, EIT.

DESIGNED BY:

FROM:

H. GUIMONT, P.Eng.

VERIFIED BY:

JUL-20-2018

DATE:

AGNICO-EAGLE

CLIENT:



menard

1590, RUE AMPÈRE B202 info@menardcanada.ca
BOUCHERVILLE, QC TÉL.: (450)449-2633
J4B 7L4 FAX: (450)449-2677

WHALE TAIL DYKE AMARUQ
MEADOWBANKS

PROJECT:

DYNAMIC COMPACTION

WORK:

TREATMENT PROGRAM SECTION C

DRAWING TITLE:

1:425

0 4.3 8.6 12.9 m SCALE:

18M004

FOLDER:

11 x 8.5

FORMAT:

SYSTEM:

18M004_DWG-R2.dwg

FILE:

DRAWING N°:

AUG-20-2018

DATE:

200C

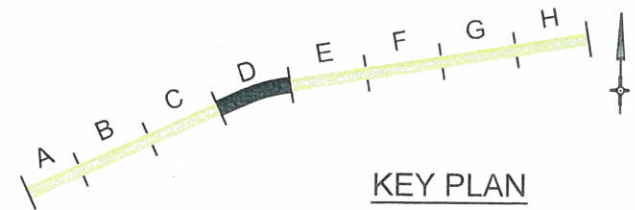
LEGEND

TREATMENT LIMIT
(10m EFFECTIVE WIDTH)

- PHASE 1
- PHASE 2
- △ PHASE 3
- ⊗ PHASE 4

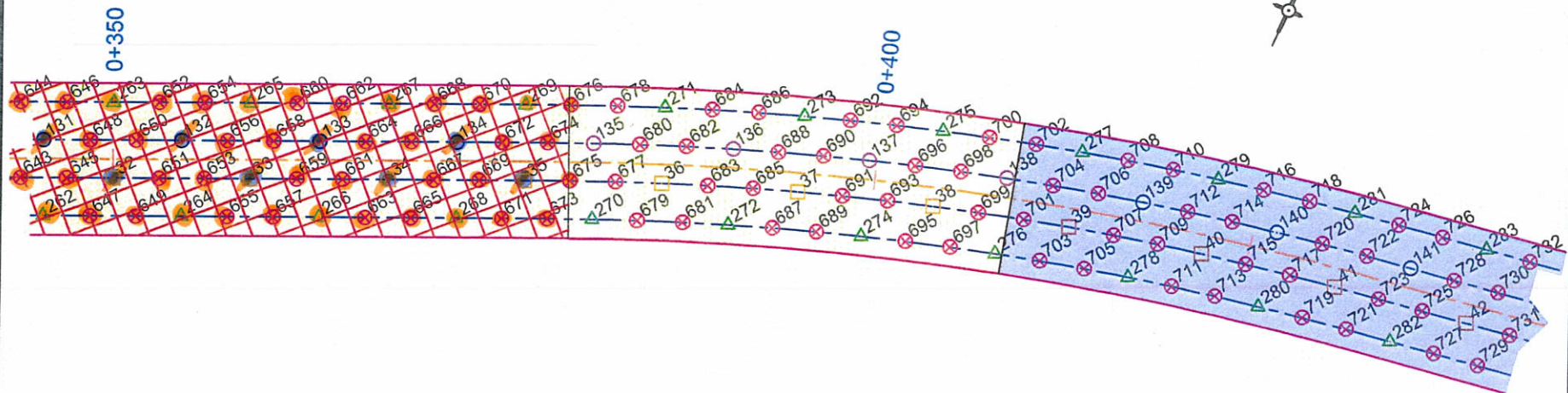
DC DEPTH

- 0m-9m
- 0m-10m
- 0m-10m from EL 153.5



29/08/2018

30/08/2018



REVISIONS			DRAWN BY: S. DZANOUNI		DRAWING REFERENCE: 651298-2500-4GDD-0004-01		DYNAMIC COMPACTION		WORK:
No.	DATE	DESCRIPTION	DESIGNED BY: A. VATEAU, EIT.	FROM:	DATE:		DRAWING TITLE: TREATMENT PROGRAM SECTION D		
0	JUN-08-2018	FOR CONSTRUCTION	VERIFIED BY: H. GUIMONT, P.Eng.	JUL-20-2018			1:425		SCALE:
1	JUL-23-2018	FOR CONSTRUCTION	AGNICO-EAGLE		CLIENT:	PROJECT:	18M004		FOLDER:
2	AUG-20-2018	REVISED SURVEYED BEDROCK (AUG 20TH)	WHALE TAIL DYKE AMARUQ MEADOWBANKS				18M004_DWG-R2.dwg		FILE:
							AUG-20-2018		DATE:
							200D		SYSTEM:
							11 x 8.5		FORMAT:
							METRIC		DRAWING N°:

PROJECT : WTD construction
PROJECT #: 658309
DOCUMENT #: 20180903-DS-01
(YYYYMMDD-DS/NS-01) DS/NS = Day/Night shift

DATE: 2018/09/03
TIME: 8:05
(24 hour clock)

APPROVAL FOR :

- ☐ Foundation approval (footprint)
- ☐ Foundation approval (key trench)
- ☐ Fill placement: _____
- ☐ CB cutoff wall approval
- ☒ Other: Dynamic compaction

LOCATION		PREVIOUS APPROVALS	
Station	<u>0+092 to 0+300</u>	Station:	<u>0+035 to 0+380</u>
Inclination:	<u>—</u>	Details:	<u>at el. 154.2 m</u>
ELEVATION	☐ varies <u>157.0</u> m		

COMPLIANCE WITH TECHNICAL SPECIFICATIONS:

(Add additional items if needed)

	VERIFICATIONS DONE BY:			
	QA		QC	
	Y	N	Y	N
1. Lines and grades	✓		✓	
2. Free of ice/snow/water	✓		✓	
3. Cleaning of trench and/or pile bottom				✓
4. Gradation (visual) <u>- Fine filter placement in craters</u>	✓		✓	
5. Placement (lift thickness, segregation, etc.) "	✓		✓	
6. Compaction	✓		✓	
7. Foundation on bedrock				✓
8. Key-in depth into bedrock				✓
9. Water quality				✓
10. CB slurry viscosity and density				✓
11. Elevation of CB Piles				✓
12. Primary piles strength (Minimum of 50 kPa UCS)				✓
13. Keying between primary and secondary				✓
14. Cracks on top of cutoff wall				✓

18M004- WHALE TAIL DYKE - AMARUQ (NU)

Ground Improvement - Dynamic Compaction

**DAILY REPORT**

Date:	8/30/2018	Report N°	10	Site Ref	18M004	Weather	Rainy / Cloudy
Staff	Project Manager		1	Equipements	Site office (by client)		
	Site Supervisor		1		Crane Equipment Containers		2
	HSE Manager		0		Pick-up (by client)		1
	Crane Operator		2		Dynamic Compaction crane (NCK Rapier)		1
	Mechanic		0		Dynamic Compaction pounder		1
	Visitor		0		Total Station		1
	Bulldozer operator (by client)		0		Mobile Crane		1
					Bulldozer (by client)		
	Total		4		Total		7

Description of the work performed / Remarks

- 1- Zone DC11 - Completion of remaining PH2 print
- 2- Zone DC11 - Completion of PH3 prints
- 3- Zone DC11 - 2 additional blows on PH1 and PH2 prints given when doing PH4 prints
- 4- Zone DC11 - Completion of PH4 prints
- 5- Following transmission of east abutment survey between PK0+772 and PK0+840, modification of the extent of DC Zone
- 6- DC Zone 7.5 extended from PK0+772 to PK0+800
- 7- DC Zone 5 added from PK0+800 to PK0+810
- 8- DC Zone 3 added from PK0+810 to PK0+830 / End of treatment at PK 0+830 due to bedrock above EL157.
- 9- 4 PH4 moved from DC Zone 10 to DC Zone 11 as it was possible to apply treatment despite the fact they were located in the slope
- 10-
- 11-
- 12-
- 13-
- 14-
- 15-
- 16-
- 17-

Dynamic Compaction Works

Zone	Description	Total number of prints	Done Today	Done Previously	Cumulated	Percentage Completed
Dynamic Compaction - Zone DC3	Phase 1 print	11				0%
	Phase 2 print	11				0%
	Phase 3 print	22				0%
	Phase 4 print	88				0%
Dynamic Compaction - Zone DC5	Phase 1 print	9				0%
	Phase 2 print	9				0%
	Phase 3 print	18				0%
	Phase 4 print	74				0%
Dynamic Compaction - Zone DC7.5	Phase 1 print	40	12	0	12	30%
	Phase 2 print	38	11	0	11	29%
	Phase 3 print	78				0%
	Phase 4 print	308				0%
Dynamic Compaction - Zone DC9	Phase 1 print	17				0%
	Phase 2 print	18				0%
	Phase 3 print	35				0%
	Phase 4 print	144				0%
Dynamic Compaction - Zone DC10	Phase 1 print	8				0%
	Phase 2 print	8				0%
	Phase 3 print	16				0%
	Phase 4 print	58				0%
Dynamic Compaction - Zone DC11	Phase 1 print	5		5	5	100%
	Phase 2 print	5	1	4	5	100%
	Phase 3 print	10	10	0	10	100%
	Phase 4 print	42	42	0	42	100%

Signatures	MENARD CANADA INC.	CLIENT

18M004- WHALE TAIL DYKE - AMARUQ (NU)

Ground Improvement - Dynamic Compaction

**DAILY REPORT**

Date:	8/31/2018	Report N°	11	Site Ref	18M004	Weather	Sunny
Staff	Project Manager	1	Equipements	Site office (by client)		Total	
	Site Supervisor	1		Crane Equipment Containers	2		
	HSE Manager	0		Pick-up (by client)	1		
	Crane Operator	2		Dynamic Compaction crane (NCK Rapier)	1		
	Mechanic	0		Dynamic Compaction pounder	1		
	Visitor	0		Total Station	1		
	Bulldozer operator (by client)	0		Mobile Crane			
				Bulldozer (by client)			
	Total	4		Total	6		

Description of the work performed / Remarks

1-	DC Phase 1 and DC Phase 2 in Zone DC3 / DC5 and DC7.5
2-	Erratum in Daily Report of August 30th 2018 : Penetration test performed on PH1 print (#27) in Zone DC7.5
3-	Erratum in Daily Report of August 30th 2018 : Penetration test performed on PH2 print (#126) in Zone DC7.5
4-	Following instruction from GHD given in daily meeting, Dynamic Compaction starts at PK 0+092 and ends at PK0+830 - modification of the DC Zone
5-	Zone DC3 total # of prints per phase adjusted to match new limits
6-	Penetration test performed on PH1 print (#12) in Zone DC5
7-	Zone DC7.5 - Dynamic Compaction on PH3 and PH4 prints
8-	Zone DC7.5 - 2 additional blows on PH1 and PH2 prints given when doing PH4 prints
9-	Volume Survey performed on all points for PH1 / PH2 and PH3 prints
10-	Volume Survey performed on random PH4 prints
11-	
12-	
13-	
14-	
15-	
16-	
17-	

Dynamic Compaction Works

Zone	Description	Total number of prints	Done Today	Done Previously	Cumulated	Percentage Completed
Dynamic Compaction - Zone DC3	Phase 1 print	8	1	0	1	13%
	Phase 2 print	9	2	0	2	22%
	Phase 3 print	17				0%
	Phase 4 print	74				0%
Dynamic Compaction - Zone DC5	Phase 1 print	9	8	0	8	89%
	Phase 2 print	9	8	0	8	89%
	Phase 3 print	18				0%
	Phase 4 print	74				0%
Dynamic Compaction - Zone DC7.5	Phase 1 print	40	3	12	15	38%
	Phase 2 print	38	3	11	14	37%
	Phase 3 print	78	26	0	26	33%
	Phase 4 print	308	99	0	99	32%
Dynamic Compaction - Zone DC9	Phase 1 print	17				0%
	Phase 2 print	18				0%
	Phase 3 print	35				0%
	Phase 4 print	144				0%
Dynamic Compaction - Zone DC10	Phase 1 print	8				0%
	Phase 2 print	8				0%
	Phase 3 print	16				0%
	Phase 4 print	58				0%
Dynamic Compaction - Zone DC11	Phase 1 print	5		5	5	100%
	Phase 2 print	5		5	5	100%
	Phase 3 print	10		10	10	100%
	Phase 4 print	42		42	42	100%

Signatures	MENARD CANADA INC.	CLIENT
		JAC

N°	Phase	Print N°	DC-Zone	Date	Coordinates		DC Pounder			DC Prints Measurements					Remarks
					NORTHING	EASTING	Height of Drop [m]	Weight [t]	Number of drops	Depth [m]	Upper Diameter [m]	Bottom Diameter [m]	Volume [m³]	Settlement - Phase [mm]	
30	PH4	670	DC11	8/30/2018	7254734.515	607330.805	18	15	2	0.30	2.40	1.80	1.05	1	
31	PH4	657	DC11	8/30/2018	7254722.139	607321.567	18	15	2	0.35	2.50	1.80	1.28	2	
32	PH4	650	DC11	8/30/2018	7254723.009	607311.308	18	15	2	0.35	2.35	1.80	1.19	2	
33	PH4	643	DC11	8/30/2018	7254717.654	607305.492	18	15	2	0.25	2.25	1.80	0.81	1	
34	PH4	637	DC11	8/30/2018	7254715.194	607300.020	18	15	2	0.30	2.50	1.80	1.10	2	
35	PH1	27	DC7.5	8/30/2018	7254701.665	607269.921	18	15	28	1.20	4.25	1.80	9.10	101	PT-PH1 Zone DC7.5
36	PH1	26	DC7.5	8/30/2018	7254697.975	607261.712	18	15	20	1.05	3.60	1.80	6.23	69	
37	PH1	25	DC7.5	8/30/2018	7254694.285	607253.503	18	15	20	1.06	3.50	1.80	6.05	67	
38	PH1	24	DC7.5	8/30/2018	7254690.595	607245.294	18	15	20	1.10	3.60	1.80	6.53	73	
39	PH1	23	DC7.5	8/30/2018	7254686.905	607237.086	18	15	20	1.20	3.60	1.80	7.13	79	
40	PH1	22	DC7.5	8/30/2018	7254683.215	607228.877	18	15	20	1.10	3.65	1.80	6.66	74	
41	PH1	21	DC7.5	8/30/2018	7254679.525	607220.668	18	15	20	1.10	3.70	1.80	6.79	75	
42	PH1	20	DC7.5	8/30/2018	7254675.835	607212.459	18	15	20	1.10	3.45	1.80	6.15	68	
43	PH1	19	DC7.5	8/30/2018	7254672.145	607204.250	18	15	20	1.10	3.50	1.80	6.28	70	
44	PH1	18	DC7.5	8/30/2018	7254668.455	607196.042	18	15	20	1.15	3.60	1.80	6.83	76	
45	PH1	17	DC7.5	8/30/2018	7254664.765	607187.833	18	15	20	1.05	3.40	1.80	5.75	64	
46	PH1	16	DC7.5	8/30/2018	7254661.075	607179.624	18	15	20	1.00	3.25	1.80	5.15	57	
47	PH2	126	DC7.5	8/30/2018	7254702.100	607264.791	18	15	24	1.05	3.60	1.80	6.23	69	PT-PH2 Zone DC7.5
48	PH2	125	DC7.5	8/30/2018	7254698.410	607256.583	18	15	14	1.00	3.05	1.80	4.72	52	
49	PH2	124	DC7.5	8/30/2018	7254694.720	607248.374	18	15	14	0.85	3.22	1.80	4.32	48	
50	PH2	123	DC7.5	8/30/2018	7254691.030	607240.165	18	15	14	0.85	3.10	1.80	4.10	46	
51	PH2	122	DC7.5	8/30/2018	7254687.340	607231.956	18	15	14	1.00	3.00	1.80	4.62	51	
52	PH2	121	DC7.5	8/30/2018	7254683.650	607223.747	18	15	14	0.95	2.95	1.80	4.29	48	
53	PH2	120	DC7.5	8/30/2018	7254679.960	607215.539	18	15	14	1.05	3.00	1.80	4.85	54	
54	PH2	119	DC7.5	8/30/2018	7254676.270	607207.330	18	15	14	0.95	3.05	1.80	4.48	50	
55	PH2	118	DC7.5	8/30/2018	7254672.580	607199.121	18	15	14	0.75	3.05	1.80	3.54	39	
56	PH2	117	DC7.5	8/30/2018	7254668.890	607190.912	18	15	14	0.90	3.05	1.80	4.25	47	
57	PH2	116	DC7.5	8/30/2018	7254665.200	607182.704	18	15	14	1.00	3.20	1.80	5.04	56	
58	PH1	15	DC7.5	8/31/2018	7254657.385	607171.415	18	15	20	1.10	3.60	1.80	6.53	73	
59	PH1	14	DC7.5	8/31/2018	7254653.695	607163.207	18	15	20	1.00	3.55	1.80	5.82	65	
60	PH1	13	DC7.5	8/31/2018	7254650.005	607154.998	18	15	20	0.95	3.30	1.80	4.99	55	
61	PH1	12	DC5	8/31/2018	7254646.315	607146.789	18	15	16	1.05	3.65	1.80	6.36	71	PT-PH1 Zone DC5
62	PH1	11	DC5	8/31/2018	7254642.625	607138.580	18	15	10	0.80	3.05	1.80	3.78	42	
63	PH1	10	DC5	8/31/2018	7254638.936	607130.371	18	15	10	0.95	3.25	1.80	4.89	54	
64	PH1	9	DC5	8/31/2018	7254635.246	607122.163	18	15	10	0.95	3.30	1.80	4.99	55	
65	PH1	8	DC5	8/31/2018	7254631.556	607113.954	18	15	10	0.85	3.25	1.80	4.37	49	
66	PH1	7	DC5	8/31/2018	7254627.866	607105.745	18	15	10	0.80	3.05	1.80	3.78	42	
67	PH1	6	DC5	8/31/2018	7254624.176	607097.536	18	15	10	0.95	3.10	1.80	4.58	51	
68	PH1	5	DC5	8/31/2018	7254620.486	607089.327	18	15	10	0.70	3.00	1.80	3.23	36	
69	PH1	4	DC3	8/31/2018	7254616.796	607081.119	18	15	2	0.35	2.30	1.80	1.16	13	
70	PH2	115	DC7.5	8/31/2018	7254661.510	607174.495	18	15	14	0.75	3.05	1.80	3.54	39	
71	PH2	114	DC7.5	8/31/2018	7254657.820	607166.286	18	15	14	0.90	3.05	1.80	4.25	47	
72	PH2	113	DC7.5	8/31/2018	7254654.131	607158.077	18	15	14	0.90	3.15	1.80	4.44	49	
73	PH2	112	DC5	8/31/2018	7254650.441	607149.868	18	15	10	0.90	2.95	1.80	4.07	45	

N°	Phase	Print N°	DC-Zone	Date	Coordinates		DC Pounder			DC Prints Measurements					Remarks
					NORTHING	EASTING	Height of Drop [m]	Weight [t]	Number of drops	Depth [m]	Upper Diameter [m]	Bottom Diameter [m]	Volume [m³]	Settlement - Phase [mm]	
74	PH2	111	DC5	8/31/2018	7254646.751	607141.660	18	15	10	0.80	3.00	1.80	3.69	41	
75	PH2	110	DC5	8/31/2018	7254643.061	607133.451	18	15	10	0.85	2.90	1.80	3.75	42	
76	PH2	109	DC5	8/31/2018	7254639.371	607125.242	18	15	10	1.00	3.20	1.80	5.04	56	
77	PH2	108	DC5	8/31/2018	7254635.681	607117.033	18	15	10	0.95	3.00	1.80	4.39	49	
78	PH2	107	DC5	8/31/2018	7254631.991	607108.824	18	15	10	0.80	3.00	1.80	3.69	41	
79	PH2	106	DC5	8/31/2018	7254628.301	607100.616	18	15	10	0.90	2.90	1.80	3.97	44	
80	PH2	105	DC5	8/31/2018	7254624.611	607092.407	18	15	10	0.80	3.00	1.80	3.69	41	
81	PH2	104	DC3	8/31/2018	7254620.921	607084.198	18	15	2	0.35	2.30	1.80	1.16	13	
82	PH2	103	DC3	8/31/2018	7254617.231	607075.989	18	15	2	0.35	2.15	1.80	1.08	12	
83	PH3	252	DC7.5	8/31/2018	7254697.539	607266.841	18	15	8	0.90	3.20	1.80	4.53	25	
84	PH3	251	DC7.5	8/31/2018	7254702.535	607259.662	18	15	8	0.85	2.85	1.80	3.67	20	
85	PH3	250	DC7.5	8/31/2018	7254693.849	607258.633	18	15	8	1.00	3.10	1.80	4.82	27	
86	PH3	249	DC7.5	8/31/2018	7254698.845	607251.453	18	15	8	0.80	2.60	1.80	3.07	17	
87	PH3	248	DC7.5	8/31/2018	7254690.159	607250.424	18	15	8	0.85	3.05	1.80	4.01	22	
88	PH3	247	DC7.5	8/31/2018	7254695.155	607243.245	18	15	8	0.70	2.75	1.80	2.89	16	
89	PH3	246	DC7.5	8/31/2018	7254686.470	607242.215	18	15	8	1.00	2.90	1.80	4.42	25	
90	PH3	245	DC7.5	8/31/2018	7254691.465	607235.036	18	15	8	0.80	2.90	1.80	3.53	20	
91	PH3	244	DC7.5	8/31/2018	7254682.780	607234.006	18	15	8	0.90	2.85	1.80	3.89	22	
92	PH3	243	DC7.5	8/31/2018	7254687.775	607226.827	18	15	8	0.75	2.85	1.80	3.24	18	
93	PH3	242	DC7.5	8/31/2018	7254679.090	607225.797	18	15	8	0.60	2.80	1.80	2.53	14	
94	PH3	241	DC7.5	8/31/2018	7254684.085	607218.618	18	15	8	0.75	2.80	1.80	3.17	18	
95	PH3	240	DC7.5	8/31/2018	7254675.400	607217.589	18	15	8	0.80	2.75	1.80	3.30	18	
96	PH3	239	DC7.5	8/31/2018	7254680.395	607210.409	18	15	8	0.85	2.95	1.80	3.84	21	
97	PH3	238	DC7.5	8/31/2018	7254671.710	607209.380	18	15	8	0.85	2.75	1.80	3.51	19	
98	PH3	237	DC7.5	8/31/2018	7254676.705	607202.201	18	15	8	0.80	2.65	1.80	3.15	17	
99	PH3	236	DC7.5	8/31/2018	7254668.020	607201.171	18	15	8	0.80	2.80	1.80	3.38	19	
100	PH3	235	DC7.5	8/31/2018	7254673.015	607193.992	18	15	8	0.75	2.75	1.80	3.09	17	
101	PH3	234	DC7.5	8/31/2018	7254664.330	607192.962	18	15	8	0.85	2.85	1.80	3.67	20	
102	PH3	233	DC7.5	8/31/2018	7254669.326	607185.783	18	15	8	0.50	2.70	1.80	2.01	11	
103	PH3	232	DC7.5	8/31/2018	7254660.640	607184.753	18	15	8	0.90	3.10	1.80	4.34	24	
104	PH3	231	DC7.5	8/31/2018	7254665.636	607177.574	18	15	8	0.85	2.80	1.80	3.59	20	
105	PH3	230	DC7.5	8/31/2018	7254656.950	607176.545	18	15	8	0.80	2.80	1.80	3.38	19	
106	PH3	229	DC7.5	8/31/2018	7254661.946	607169.365	18	15	8	0.80	2.60	1.80	3.07	17	
107	PH3	228	DC7.5	8/31/2018	7254653.260	607168.336	18	15	8	0.70	2.75	1.80	2.89	16	
108	PH3	227	DC7.5	8/31/2018	7254658.256	607161.157	18	15	8	0.65	3.10	1.80	3.14	17	
109	PH2	125	DC7.5	8/31/2018	7254698.410	607256.583	18	15	2	0.30	2.50	1.80	1.10	12	
110	PH2	124	DC7.5	8/31/2018	7254694.720	607248.374	18	15	2	0.25	2.30	1.80	0.83	9	
111	PH2	123	DC7.5	8/31/2018	7254691.030	607240.165	18	15	2	0.30	2.30	1.80	1.00	11	
112	PH2	122	DC7.5	8/31/2018	7254687.340	607231.956	18	15	2	0.25	2.20	1.80	0.79	9	
113	PH2	121	DC7.5	8/31/2018	7254683.650	607223.747	18	15	2	0.35	2.40	1.80	1.22	14	
114	PH2	120	DC7.5	8/31/2018	7254679.960	607215.539	18	15	2	0.35	2.40	1.80	1.22	14	
115	PH2	119	DC7.5	8/31/2018	7254676.270	607207.330	18	15	2	0.25	2.30	1.80	0.83	9	
116	PH2	118	DC7.5	8/31/2018	7254672.580	607199.121	18	15	2	0.30	2.40	1.80	1.05	12	
117	PH2	117	DC7.5	8/31/2018	7254668.890	607190.912	18	15	2	0.35	2.40	1.80	1.22	14	

					Coordinates		DC Pounder			DC Prints Measurements					Remarks
N°	Phase	Print N°	DC-Zone	Date	NORTHING	EASTING	Height of Drop [m]	Weight [t]	Number of drops	Depth [m]	Upper Diameter [m]	Bottom Diameter [m]	Volume [m³]	Settlement - Phase [mm]	
118	PH2	116	DC7.5	8/31/2018	7254665.200	607182.704	18	15	2	0.30	2.20	1.80	0.95	11	
119	PH2	115	DC7.5	8/31/2018	7254661.510	607174.495	18	15	2	0.30	2.40	1.80	1.05	12	
120	PH2	114	DC7.5	8/31/2018	7254657.820	607166.286	18	15	2	0.30	2.40	1.80	1.05	12	
121	PH1	26	DC7.5	8/31/2018	7254697.975	607261.712	18	15	2	0.30	2.50	1.80	1.10	12	
122	PH1	25	DC7.5	8/31/2018	7254694.285	607253.503	18	15	2	0.30	2.40	1.80	1.05	12	
123	PH1	24	DC7.5	8/31/2018	7254690.595	607245.294	18	15	2	0.30	2.30	1.80	1.00	11	
124	PH1	23	DC7.5	8/31/2018	7254686.905	607237.086	18	15	2	0.30	2.40	1.80	1.05	12	
125	PH1	22	DC7.5	8/31/2018	7254683.215	607228.877	18	15	2	0.35	2.40	1.80	1.22	14	
126	PH1	21	DC7.5	8/31/2018	7254679.525	607220.668	18	15	2	0.30	2.20	1.80	0.95	11	
127	PH1	20	DC7.5	8/31/2018	7254675.835	607212.459	18	15	2	0.40	2.30	1.80	1.33	15	
128	PH1	19	DC7.5	8/31/2018	7254672.145	607204.250	18	15	2	0.30	2.40	1.80	1.05	12	
129	PH1	18	DC7.5	8/31/2018	7254668.455	607196.042	18	15	2	0.35	2.40	1.80	1.22	14	
130	PH1	17	DC7.5	8/31/2018	7254664.765	607187.833	18	15	2	0.30	2.30	1.80	1.00	11	
131	PH1	16	DC7.5	8/31/2018	7254661.075	607179.624	18	15	2	0.40	2.80	1.80	1.69	19	
132	PH1	15	DC7.5	8/31/2018	7254657.385	607171.415	18	15	2	0.40	2.50	1.80	1.47	16	
133	PH4	603	DC7.5	8/31/2018	7254699.205	607264.448	18	15	2	0.35	2.40	1.80	1.22	2	
134	PH4	598	DC7.5	8/31/2018	7254701.305	607256.926	18	15	2	0.45	2.50	1.80	1.65	2	
135	PH4	592	DC7.5	8/31/2018	7254695.950	607251.110	18	15	2	0.30	2.20	1.80	0.95	1	
136	PH4	585	DC7.5	8/31/2018	7254688.929	607247.688	18	15	2	0.50	2.70	1.80	2.01	3	
137	PH4	582	DC7.5	8/31/2018	7254693.925	607240.508	18	15	2	0.30	2.40	1.80	1.05	1	
138	PH4	577	DC7.5	8/31/2018	7254685.240	607239.479	18	15	2	0.30	2.40	1.80	1.05	1	
139	PH4	576	DC7.5	8/31/2018	7254688.570	607234.693	18	15	2	0.30	2.20	1.80	0.95	1	
140	PH4	566	DC7.5	8/31/2018	7254686.545	607224.091	18	15	2	0.40	2.40	1.80	1.39	2	
141	PH4	559	DC7.5	8/31/2018	7254676.630	607220.325	18	15	2	0.40	2.30	1.80	1.33	2	
142	PH4	542	DC7.5	8/31/2018	7254675.475	607199.464	18	15	2	0.40	2.40	1.80	1.39	2	
143	PH4	533	DC7.5	8/31/2018	7254667.225	607193.305	18	15	2	0.30	2.20	1.80	0.95	1	
144	PH4	511	DC7.5	8/31/2018	7254654.490	607171.072	18	15	2	0.35	2.40	1.80	1.22	2	
145	PH4	516	DC7.5	8/31/2018	7254663.176	607172.102	18	15	2	0.25	2.40	1.80	0.87	1	
146	PH4	529	DC7.5	8/31/2018	7254663.100	607190.226	18	15	2	0.35	2.30	1.80	1.16	2	
147	PH4	527	DC7.5	8/31/2018	7254661.870	607187.490	18	15	2	0.30	2.30	1.80	1.00	1	
148							18	15							
149							18	15							
150							18	15							
151							18	15							
152							18	15							
153							18	15							
154							18	15							
155							18	15							
156							18	15							
157							18	15							
158							18	15							
159							18	15							
160							18	15							
161							18	15							

18M004- WHALE TAIL DYKE - AMARUQ (NU)

Ground Improvement - Dynamic Compaction

**DAILY REPORT**

Date:	9/1/2018	Report N°	12	Site Ref	18M004	Weather	Sunny
Staff	Project Manager	1	Equipements	Site office (by client)		Total	
	Site Supervisor	1		Crane Equipment Containers	2		
	HSE Manager	0		Pick-up (by client)	1		
	Crane Operator	2		Dynamic Compaction crane (NCK Rapier)	1		
	Mechanic	0		Dynamic Compaction pounder	1		
	Visitor	0		Total Station	1		
	Bulldozer operator (by client)	0		Mobile Crane			
				Bulldozer (by client)			
	Total	4		Total	6		

Description of the work performed / Remarks

- 1- Zone DC3 and DC5 : Dynamic Compaction PH3 and PH4
- 2- Zone DC3 and DC5 - 2 additional blows on PH1 and PH2 prints given when doing PH4 prints
- 3- Zone DC3 on top of DC11 : Dynamic Compaction PH1 and PH2
- 4- Zone DC7.5 : Dynamic Compaction PH1 / PH2 / PH3 and PH4
- 5- Zone DC7.5 - 2 additional blows on PH1 and PH2 prints given when doing PH4 prints
- 6- Zone DC9 and DC10 : Dynamic Compaction PH1 / PH2
- 7- Penetration test performed on PH1 print (#29) in Zone DC9
- 8- Penetration test performed on PH2 print (#129) in Zone DC9
- 9- Penetration test performed on PH1 print (#30) in Zone DC10
- 10- Penetration test performed on PH2 print (#135) in Zone DC10
- 11- Dynamic Compaction completed between PK0+092 and PK0+300 - Main Contractor to compact using Roller Compactor
- 12- Volume Survey performed on all points for PH1 / PH2 and PH3 prints
- 13- Volume Survey performed on random PH4 prints
- 14-
- 15-
- 16-
- 17-

Dynamic Compaction Works

Zone	Description	Total number of prints	Done Today	Done Previously	Cumulated	Percentage Completed
Dynamic Compaction - Zone DC3	Phase 1 print	8	5	1	6	75%
	Phase 2 print	9	5	2	7	78%
	Phase 3 print	17	3	0	3	18%
	Phase 4 print	74	14	0	14	19%
Dynamic Compaction - Zone DC5	Phase 1 print	9		8	8	89%
	Phase 2 print	9		8	8	89%
	Phase 3 print	18	16	0	16	89%
	Phase 4 print	74	64	0	64	86%
Dynamic Compaction - Zone DC7.5	Phase 1 print	40	1	15	16	40%
	Phase 2 print	38	2	14	16	42%
	Phase 3 print	78	2	26	28	36%
	Phase 4 print	308	9	99	108	35%
Dynamic Compaction - Zone DC9	Phase 1 print	17	1	0	1	6%
	Phase 2 print	18	1	0	1	6%
	Phase 3 print	35		0	0	0%
	Phase 4 print	144		0	0	0%
Dynamic Compaction - Zone DC10	Phase 1 print	8	2	0	2	25%
	Phase 2 print	8	1	0	1	13%
	Phase 3 print	16			0	0%
	Phase 4 print	58			0	0%
Dynamic Compaction - Zone DC11	Phase 1 print	5		5	5	100%
	Phase 2 print	5		5	5	100%
	Phase 3 print	10		10	10	100%
	Phase 4 print	42		42	42	100%

Signatures	MENARD CANADA INC.	CLIENT

DYNAMIC COMPACTION

DC PRINT VOLUME AND RELATED SETTLEMENT

Project : Whale Tail Dyke - Amaruq
 Project # : 18M004
 Crane : NCK Rapier

Project Manager :
 Site Supervisor :
 Crane Operator :
 Crane Operator :

Adrien Viateau
 Maxime Roy
 Eric Bergeron
 Dany Menard

N°	Phase	Print N°	DC-Zone	Date	Coordinates		DC Pounder			DC Prints Measurements					Remarks
					NORTHING	EASTING	Height of Drop [m]	Weight [t]	Number of drops	Depth [m]	Upper Diameter [m]	Bottom Diameter [m]	Volume [m³]	Settlement - Phase [mm]	
148	PH1	4	DC3	9/1/2018	7254616.796	607081.119	18	15	2	0.40	2.50	1.80	1.47	16	
149	PH1	5	DC5	9/1/2018	7254620.486	607089.327	18	15	2	0.35	2.40	1.80	1.22	14	
150	PH1	6	DC5	9/1/2018	7254624.176	607097.536	18	15	2	0.25	2.40	1.80	0.87	10	
151	PH1	7	DC5	9/1/2018	7254627.866	607105.745	18	15	2	0.30	2.40	1.80	1.05	12	
152	PH1	8	DC5	9/1/2018	7254631.556	607113.954	18	15	2	0.40	2.50	1.80	1.47	16	
153	PH1	9	DC5	9/1/2018	7254635.246	607122.163	18	15	2	0.25	2.40	1.80	0.87	10	
154	PH1	10	DC5	9/1/2018	7254638.936	607130.371	18	15	2	0.30	2.50	1.80	1.10	12	
155	PH1	11	DC5	9/1/2018	7254642.625	607138.580	18	15	2	0.30	2.50	1.80	1.10	12	
156	PH1	12	DC5	9/1/2018	7254646.315	607146.789	18	15	2	0.30	2.50	1.80	1.10	12	
157	PH1	13	DC7.5	9/1/2018	7254650.005	607154.998	18	15	2	0.30	2.50	1.80	1.10	12	
158	PH1	14	DC7.5	9/1/2018	7254653.695	607163.207	18	15	2	0.35	2.50	1.80	1.28	14	
159	PH1	28	DC7.5	9/1/2018	7254705.354	607278.130	18	15	20	1.10	3.90	1.80	7.33	81	
160	PH1	29	DC9	9/1/2018	7254709.044	607286.338	18	15	45	1.50	4.00	1.80	10.38	115	PT-PH1 Zone DC9
161	PH1	30	DC10	9/1/2018	7254712.734	607294.547	18	15	50	1.55	4.40	1.80	12.38	138	PT-PH1 Zone DC10
162	PH1	31	DC3	9/1/2018	7254716.424	607302.756	18	15	2	0.65	2.30	1.80	2.16	24	
163	PH1	32	DC3	9/1/2018	7254720.114	607310.965	18	15	2	0.55	2.40	1.80	1.92	21	
164	PH1	33	DC3	9/1/2018	7254723.804	607319.174	18	15	2	0.40	2.60	1.80	1.54	17	
165	PH1	34	DC3	9/1/2018	7254727.494	607327.382	18	15	2	0.50	2.70	1.80	2.01	22	
166	PH1	35	DC3	9/1/2018	7254731.184	607335.591	18	15	2	0.50	2.60	1.80	1.92	21	
167	PH1	36	DC10	9/1/2018	7254734.752	607343.807	18	15	45	1.40	4.10	1.80	10.05	112	
168	PH2	113	DC7.5	9/1/2018	7254654.131	607158.077	18	15	2	0.35	2.50	1.80	1.28	14	
169	PH2	112	DC5	9/1/2018	7254650.441	607149.868	18	15	2	0.30	2.50	1.80	1.10	12	
170	PH2	111	DC5	9/1/2018	7254646.751	607141.660	18	15	2	0.35	2.50	1.80	1.28	14	
171	PH2	110	DC5	9/1/2018	7254643.061	607133.451	18	15	2	0.30	2.40	1.80	1.05	12	
172	PH2	109	DC5	9/1/2018	7254639.371	607125.242	18	15	2	0.35	2.50	1.80	1.28	14	
173	PH2	108	DC5	9/1/2018	7254635.681	607117.033	18	15	2	0.30	2.40	1.80	1.05	12	
174	PH2	107	DC5	9/1/2018	7254631.991	607108.824	18	15	2	0.30	2.30	1.80	1.00	11	
175	PH2	106	DC5	9/1/2018	7254628.301	607100.616	18	15	2	0.25	2.50	1.80	0.92	10	
176	PH2	105	DC5	9/1/2018	7254624.611	607092.407	18	15	2	0.35	2.50	1.80	1.28	14	
177	PH2	104	DC3	9/1/2018	7254620.921	607084.198	18	15	2	0.30	2.40	1.80	1.05	12	
178	PH2	103	DC3	9/1/2018	7254617.231	607075.989	18	15	2	0.30	2.50	1.80	1.10	12	
179	PH2	126	DC7.5	9/1/2018	7254702.100	607264.791	18	15	2	0.75	2.10	1.80	2.24	25	
180	PH2	127	DC7.5	9/1/2018	7254705.790	607273.000	18	15	14	1.00	3.35	1.80	5.36	60	
181	PH2	128	DC7.5	9/1/2018	7254709.480	607281.209	18	15	14	1.05	3.40	1.80	5.75	64	

N°	Phase	Print N°	DC-Zone	Date	Coordinates		DC Pounder			DC Prints Measurements					Remarks
					NORTHING	EASTING	Height of Drop [m]	Weight [t]	Number of drops	Depth [m]	Upper Diameter [m]	Bottom Diameter [m]	Volume [m³]	Settlement - Phase [mm]	
182	PH2	129	DC9	9/1/2018	7254713.170	607289.418	18	15	40	1.35	3.90	1.80	9.00	100	PT-PH2 Zone DC9
183	PH2	130	DC3	9/1/2018	7254716.860	607297.627	18	15	2	0.55	2.40	1.80	1.92	21	
184	PH2	131	DC3	9/1/2018	7254720.549	607305.835	18	15	2	0.45	2.30	1.80	1.49	17	
185	PH2	132	DC3	9/1/2018	7254724.239	607314.044	18	15	2	0.45	2.50	1.80	1.65	18	
186	PH2	133	DC3	9/1/2018	7254727.929	607322.253	18	15	2	0.50	2.40	1.80	1.74	19	
187	PH2	134	DC3	9/1/2018	7254731.619	607330.462	18	15	2	0.40	2.40	1.80	1.39	15	PT-PH2 Zone DC10
188	PH2	135	DC10	9/1/2018	7254735.303	607338.689	18	15	40	1.30	4.10	1.80	9.34	104	
189	PH3	226	DC7.5	9/1/2018	7254649.570	607160.127	18	15	8	0.70	3.00	1.80	3.23	18	
190	PH3	225	DC7.5	9/1/2018	7254654.566	607152.948	18	15	8	0.70	2.40	1.80	2.44	14	
191	PH3	224	DC5	9/1/2018	7254645.880	607151.918	18	15	8	0.75	2.70	1.80	3.02	17	
192	PH3	223	DC5	9/1/2018	7254650.876	607144.739	18	15	8	0.75	2.60	1.80	2.88	16	
193	PH3	222	DC5	9/1/2018	7254642.190	607143.710	18	15	8	0.75	2.80	1.80	3.17	18	
194	PH3	221	DC5	9/1/2018	7254647.186	607136.530	18	15	8	0.65	2.60	1.80	2.50	14	
195	PH3	220	DC5	9/1/2018	7254638.500	607135.501	18	15	8	0.70	2.70	1.80	2.82	16	
196	PH3	219	DC5	9/1/2018	7254643.496	607128.321	18	15	8	0.70	2.70	1.80	2.82	16	
197	PH3	218	DC5	9/1/2018	7254634.810	607127.292	18	15	8	0.70	2.80	1.80	2.95	16	
198	PH3	217	DC5	9/1/2018	7254639.806	607120.113	18	15	8	0.80	2.90	1.80	3.53	20	
199	PH3	216	DC5	9/1/2018	7254631.120	607119.083	18	15	8	0.80	2.80	1.80	3.38	19	
200	PH3	215	DC5	9/1/2018	7254636.116	607111.904	18	15	8	0.70	2.70	1.80	2.82	16	
201	PH3	214	DC5	9/1/2018	7254627.430	607110.874	18	15	8	0.60	2.70	1.80	2.42	13	
202	PH3	213	DC5	9/1/2018	7254632.426	607103.695	18	15	8	0.90	3.20	1.80	4.53	25	
203	PH3	212	DC5	9/1/2018	7254623.740	607102.666	18	15	8	0.70	2.90	1.80	3.09	17	
204	PH3	211	DC5	9/1/2018	7254628.736	607095.486	18	15	8	0.70	2.70	1.80	2.82	16	
205	PH3	210	DC5	9/1/2018	7254620.051	607094.457	18	15	8	0.75	2.80	1.80	3.17	18	
206	PH3	209	DC5	9/1/2018	7254625.046	607087.277	18	15	8	0.70	2.60	1.80	2.69	15	
207	PH3	208	DC3	9/1/2018	7254616.361	607086.248	18	15	8	0.65	2.70	1.80	2.62	15	
208	PH3	207	DC3	9/1/2018	7254621.356	607079.069	18	15	8	0.65	2.50	1.80	2.38	13	
209	PH3	206	DC3	9/1/2018	7254612.671	607078.039	18	15	8	0.65	2.60	1.80	2.50	14	
210	PH4	428	DC3	9/1/2018	7254622.586	607081.805	18	15	2	0.20	2.20	1.80	0.63	1	
211	PH4	437	DC5	9/1/2018	7254622.946	607094.800	18	15	2	0.20	2.40	1.80	0.70	1	
212	PH4	440	DC5	9/1/2018	7254625.841	607095.143	18	15	2	0.30	2.40	1.80	1.05	1	
213	PH4	445	DC5	9/1/2018	7254626.636	607103.009	18	15	2	0.30	2.40	1.80	1.05	1	
214	PH4	457	DC5	9/1/2018	7254629.890	607116.347	18	15	2	0.30	2.40	1.80	1.05	1	
215	PH4	477	DC5	9/1/2018	7254641.395	607135.844	18	15	2	0.30	2.40	1.80	1.05	1	
216	PH4	491	DC5	9/1/2018	7254647.545	607149.525	18	15	2	0.30	2.40	1.80	1.05	1	
217	PH4	497	DC7.5	9/1/2018	7254648.340	607157.391	18	15	2	0.30	2.40	1.80	1.05	1	
218	PH4	503	DC7.5	9/1/2018	7254650.800	607162.863	18	15	2	0.30	2.30	1.80	1.00	1	

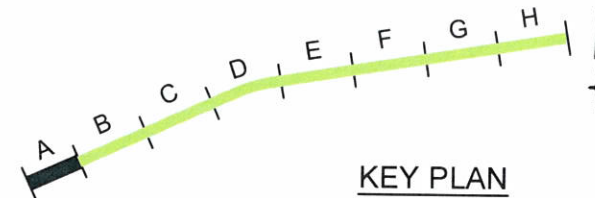
LEGEND

— TREATMENT LIMIT
(10m EFFECTIVE WIDTH)

- PHASE 1
- PHASE 2
- △ PHASE 3
- ⊗ PHASE 4

DC DEPTH

- 0m-3m
- 0m-5m

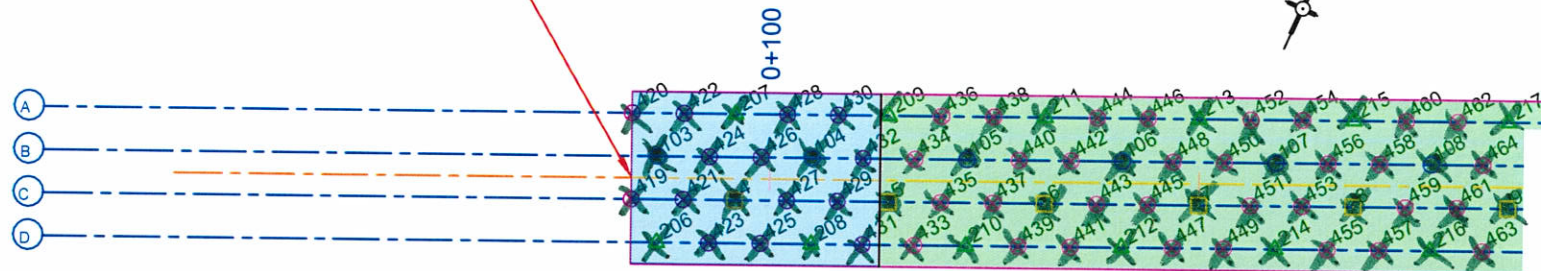


KEY PLAN

31/08/2018

01/09/2018

③ DC STARTING PK 0+092
AS PER GHD INSTRUCTION



REVISIONS

No.	DATE	DESCRIPTION
0	JUN-08-2018	FOR CONSTRUCTION
1	JUL-23-2018	FOR CONSTRUCTION
2	AUG-20-2018	REVISED SURVEYED BEDROCK (AUG 20TH)
3	AUG-31-2018	REVISED SURVEYED BEDROCK (AUG 31ST)

S. DZANOUNI

DRAWN BY:

651298-2500-4GDD-0004-01

DRAWING REFERENCE:

A. VIATEAU, EIT.

DESIGNED BY:

FROM:

H. GUIMONT, P.Eng.

VERIFIED BY:

JUL-20-2018

DATE:

AGNICO-EAGLE

CLIENT:

WHALE TAIL DYKE AMARUQ
MEADOWBANKS

PROJECT:



menard

1590, RUE AMPÈRE B202 info@menardcanada.ca
BOUCHERVILLE, QC TÉL.: (450) 449-2633
J4B 7L4 FAX: (450) 449-2677

DYNAMIC COMPACTION

WORK:

TREATMENT PROGRAM SECTION A

DRAWING TITLE:

1:425 0 4.3 8.6 12.9 m SCALE:

18M004

FOLDER:

11 x 8.5

SYSTEM:

18M004_DWG-R4.dwg

FILE:

DRAWING N°:

AUG-31-2018

DATE:

200A

LEGEND

TREATMENT LIMIT
(10m EFFECTIVE WIDTH)

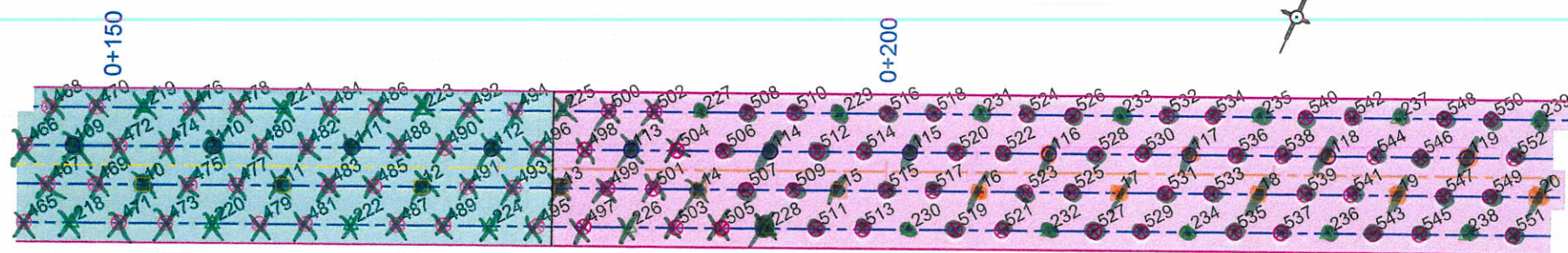
- PHASE 1
- PHASE 2
- △ PHASE 3
- ⊗ PHASE 4

DC DEPTH

- 0m-5m
- 0m-7.5m



30/08/2018
31/08/2018
01/09/2018



REVISIONS			DRAWN BY: S. DZANOUNI		DRAWING REFERENCE: 651298-2500-4GDD-0004-01		 menard 1590, RUE AMPÈRE B202 BOUCHERVILLE, QC J4B 7L4 info@menardcanada.ca TÉL.: (450)449-2633 FAX: (450)449-2677		DYNAMIC COMPACTION		WORK:
No.	DATE	DESCRIPTION	DESIGNED BY: A. VIATEAU, EIT.	FROM:	VERIFIED BY: H. GUIMONT, P.Eng.	DATE: JUL-20-2018			DRAWING TITLE: TREATMENT PROGRAM SECTION B		
0	JUN-08-2018	FOR CONSTRUCTION	AGNICO-EAGLE		CLIENT:		PROJECT:		1:425	0 4.3 8.6 12.9 m	SCALE:
1	JUL-23-2018	FOR CONSTRUCTION							18M004	FOLDER:	11 x 8.5
2	AUG-20-2018	REVISED SURVEYED BEDROCK (AUG 20TH)	WHALE TAIL DYKE AMARUQ MEADOWBANKS		DATE: AUG-20-2018		DRAWING N°: 200B		18M004_DWG-R2.dwg	FILE:	METRIC
										DATE:	