

APPENDIX G

**QC Laboratory and Field
Testing Results**

APPENDIX G-1

Stockpile QC Laboratory Results

APPENDIX G-1A

**QC Laboratory Results – Zone 2A
Fine Filter Material**

SIEVE ANALYSIS REPORT

ASTM C136 & C117

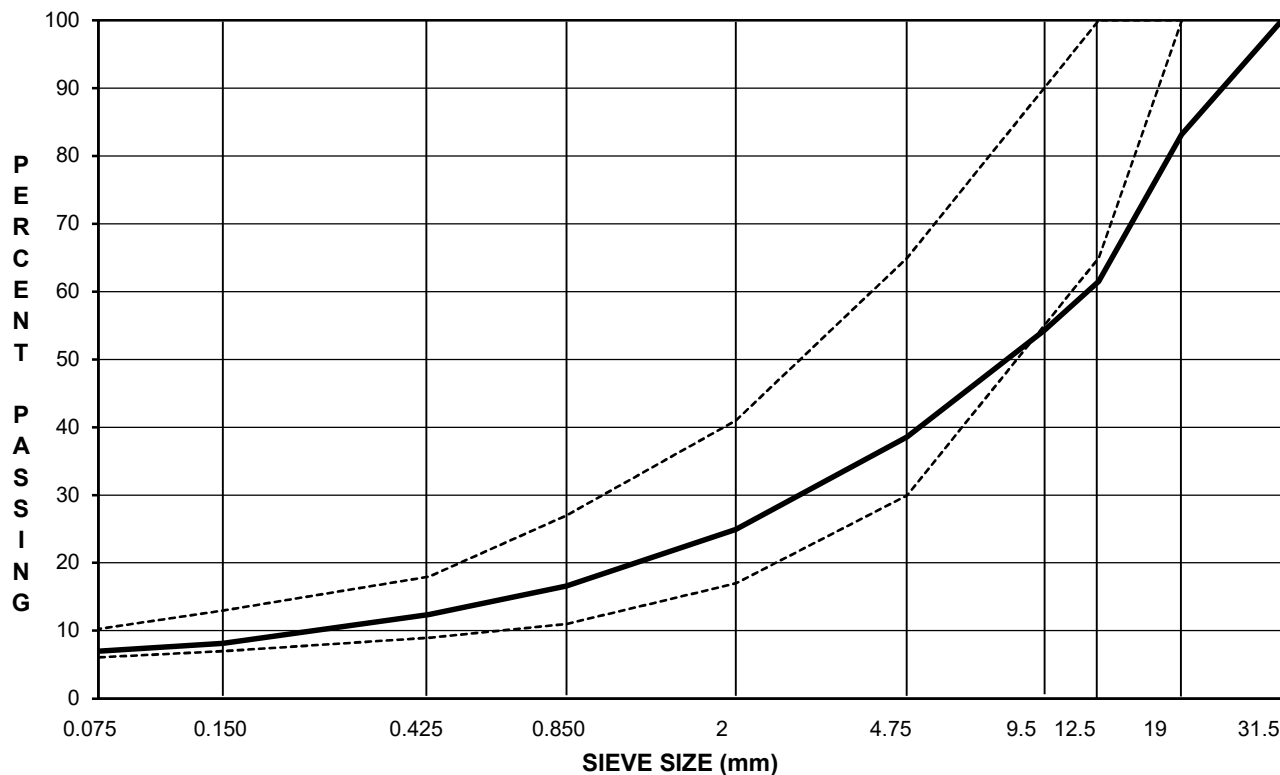
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-1-AMQ-FF-20210222
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>February 22, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>DY</u> Tested By: <u>DY</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter (19 mm Minus)</u>	Fracture (2 faces): <u>-</u>
Location: <u>Stockpile, north face</u>	Moisture Content: <u>1.4%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	200000	150000	100000	56000	31500	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result					100	83	61	54	39	25	17	12	8	7

Remarks: _____

Reviewed By: _____ P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

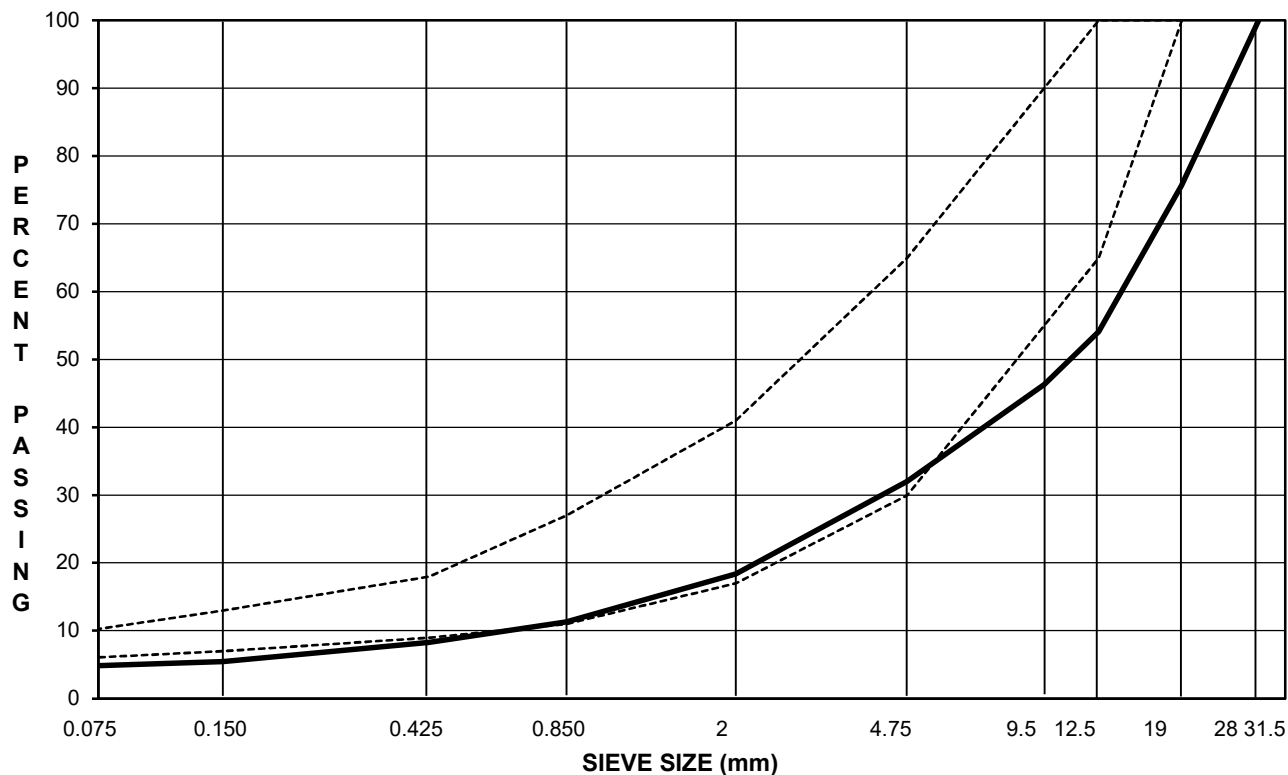
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: <u>PSD-2-AMQ-FF-20210222</u>
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>February 22, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>DY/RO</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter (19 mm Minus)</u>	Fracture (2 faces): <u>-</u>
Location: <u>Stockpile, south face</u>	Moisture Content: <u>2.2%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	150000	100000	56000	31500	28000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result					100	76	54	46	32	18	11	8	5	5

Remarks: _____

Reviewed By: _____ P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

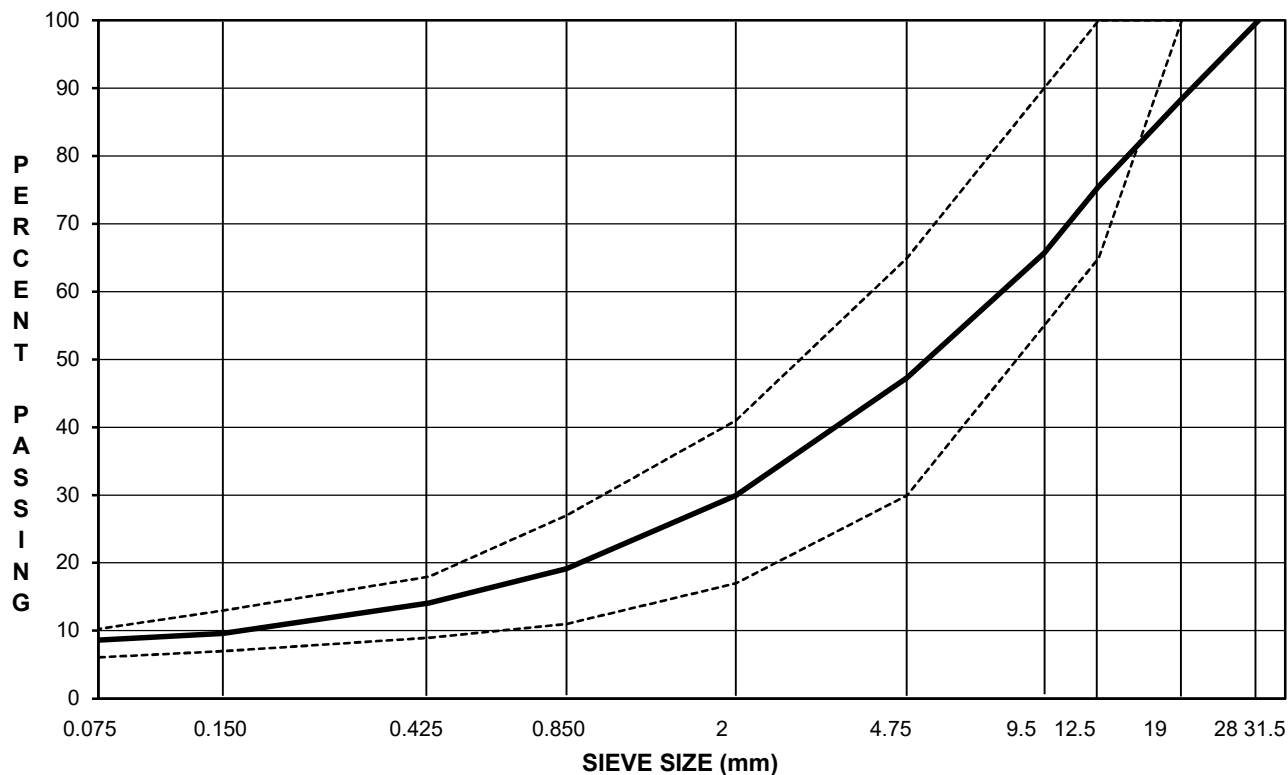
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-3-AMQ-FF-20210222
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>February 22, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Date Tested: <u>February 23, 2021</u>
Attention: <u>Jennifer Pyliuk</u>	Sampled By: <u>RO</u> Tested By: <u>DY</u>
Description: <u>Fine Filter (19 mm Minus)</u>	Specification: <u>Zone 2A</u>
Location: <u>Stockpile, top of pile</u>	Moisture Content: <u>1.7%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	150000	100000	56000	31500	28000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result					100	88	75	66	47	30	19	14	10	9

Remarks: _____

Reviewed By: _____ P.Eng.



APPENDIX G-1B

**QC Laboratory Results – Zone 2B
FFAB Material**

SIEVE ANALYSIS REPORT

ASTM C136 & C117

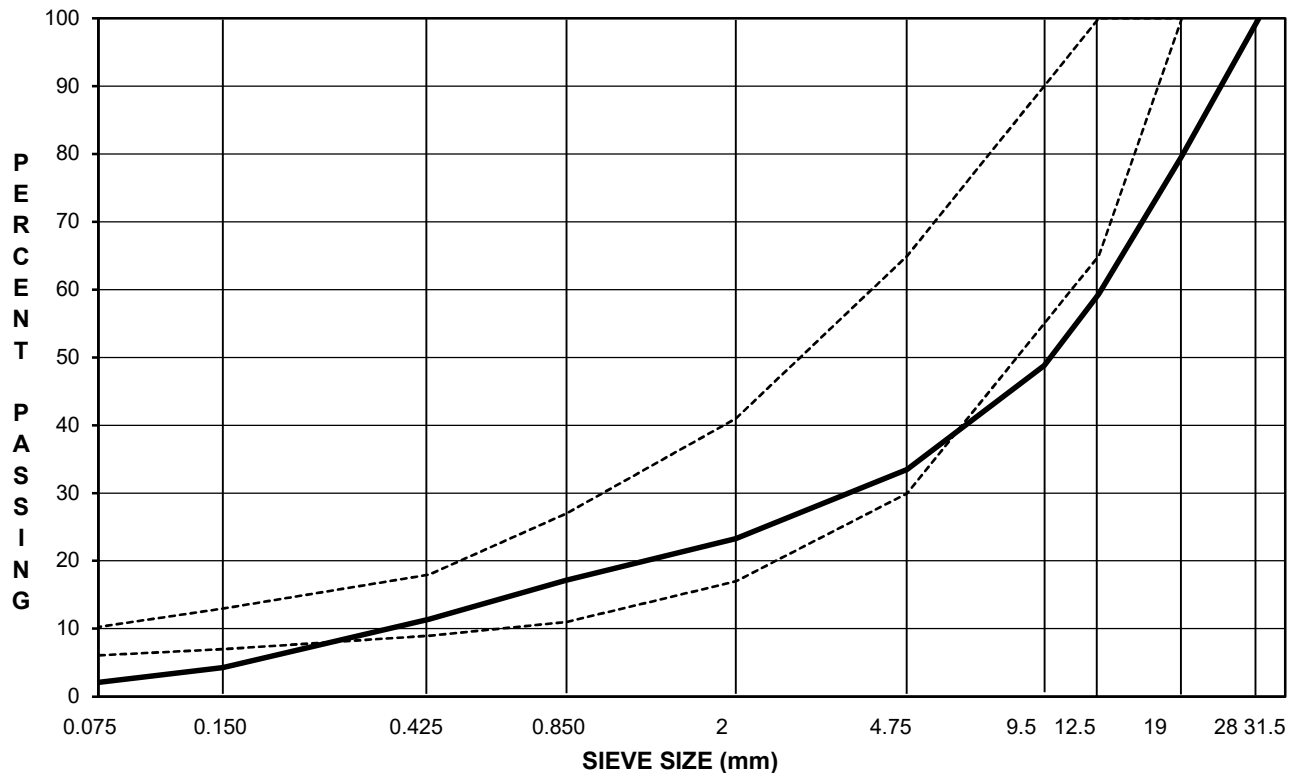
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-1-AMQ-FFAB-20210303
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 3, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>CP/JRC</u> Tested By: <u>JRC</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter Ammended with Bentonite</u>	Fracture (2 faces): _____
Location: <u>FFAB test pad</u>	Moisture Content: _____

Aggregate Gradation (% Passing)

Sieve Size (um)	150000	100000	56000	31500	28000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result					100	80	59	49	33	23	17	11	4	2

Remarks: Dry sieve. Zone 2A specification band.

Reviewed By: _____ P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

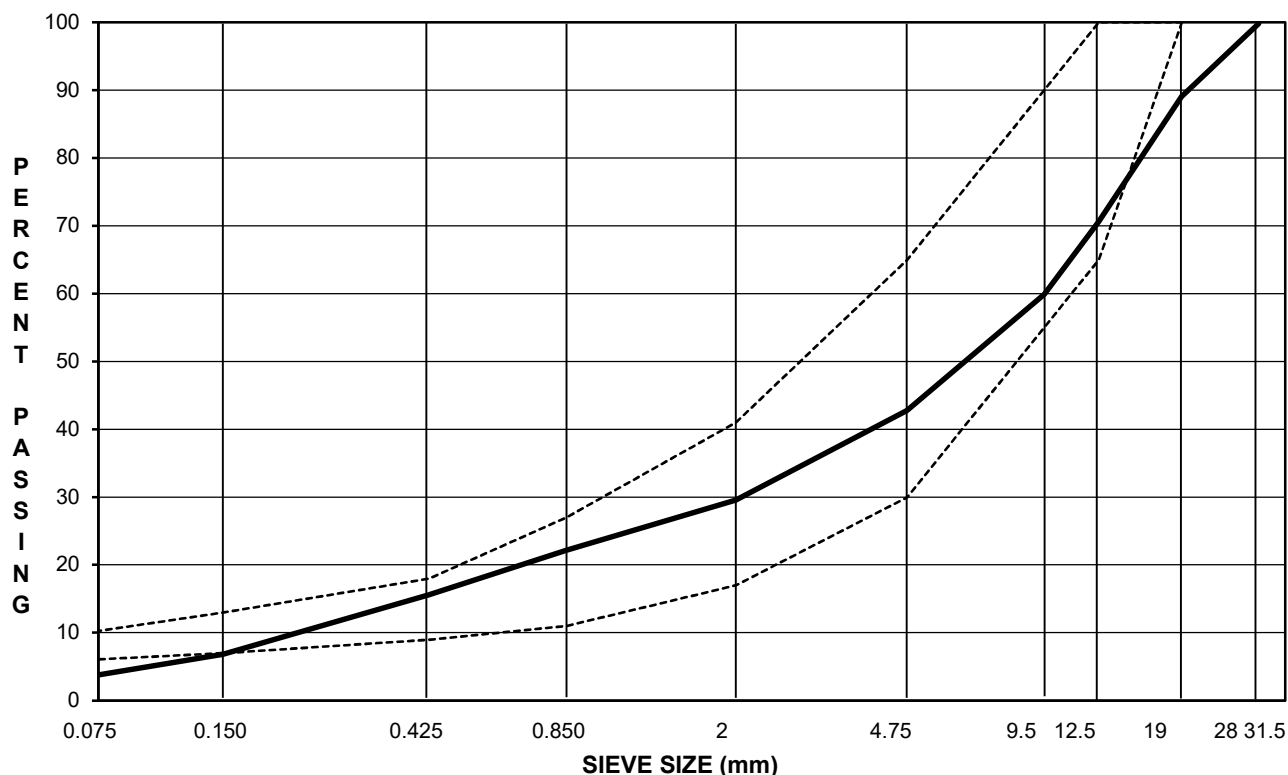
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-2-AMQ-FFAB-20210303
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 3, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>CP/JRC</u> Tested By: <u>JRC</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter Ammended with Bentonite</u>	Fracture (2 faces): _____
Location: <u>FFAB Test Pad</u>	Moisture Content: _____

Aggregate Gradation (% Passing)

Sieve Size (um)	150000	100000	56000	31500	28000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result					100	89	71	60	43	30	22	16	7	3

Remarks: Dry sieve. Zone 2A specification added.

Reviewed By: _____ P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

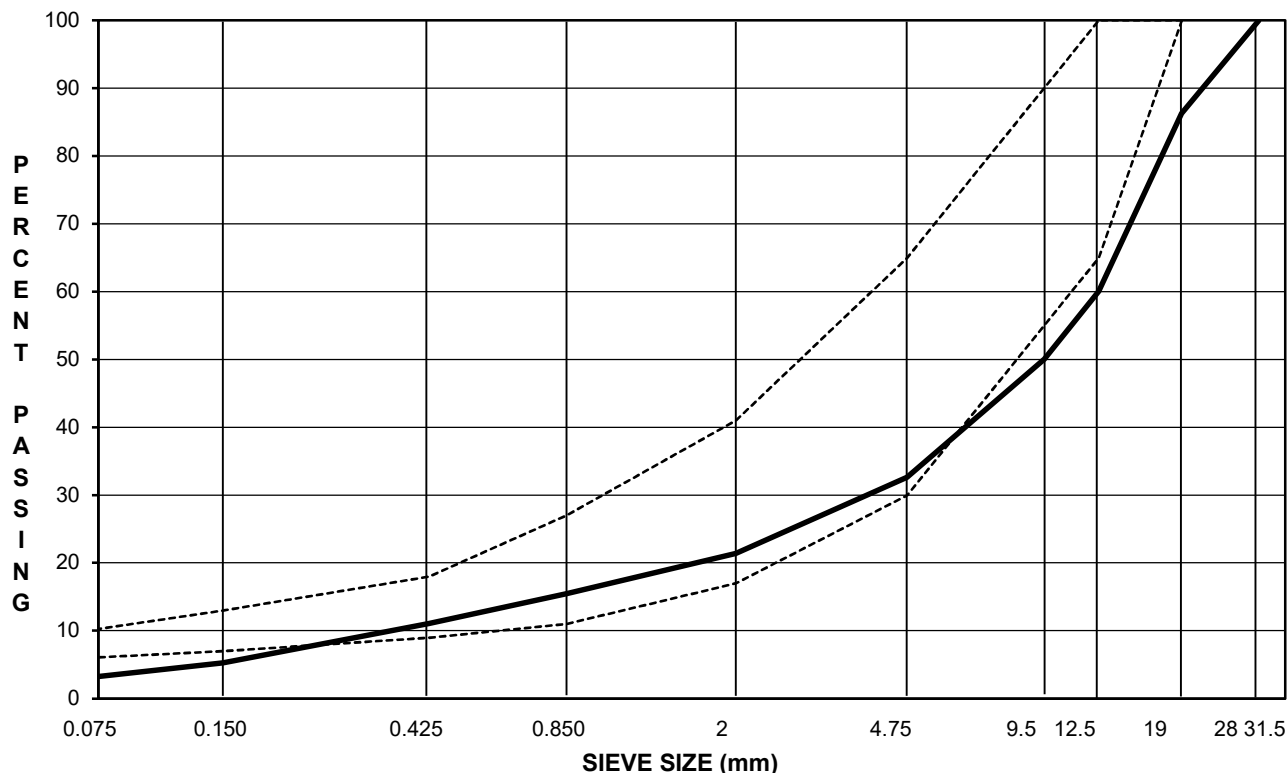
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-3-AMQ-FFAB-20210303
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 3, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>CP/JRC</u> Tested By: <u>JRC</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter Ammended with Bentonite</u>	Fracture (2 faces): _____
Location: <u>FFAB Test Pad</u>	Moisture Content: _____

Aggregate Gradation (% Passing)

Sieve Size (um)	150000	100000	56000	31500	28000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result					100	86	60	50	33	21	15	11	5	3

Remarks: Dry sieve. Zone 2A specification added.

Reviewed By: _____ P.Eng.



APPENDIX G-1C

**QC Laboratory Results – Zone 3
Coarse Filter Material**

SIEVE ANALYSIS REPORT

ASTM C136

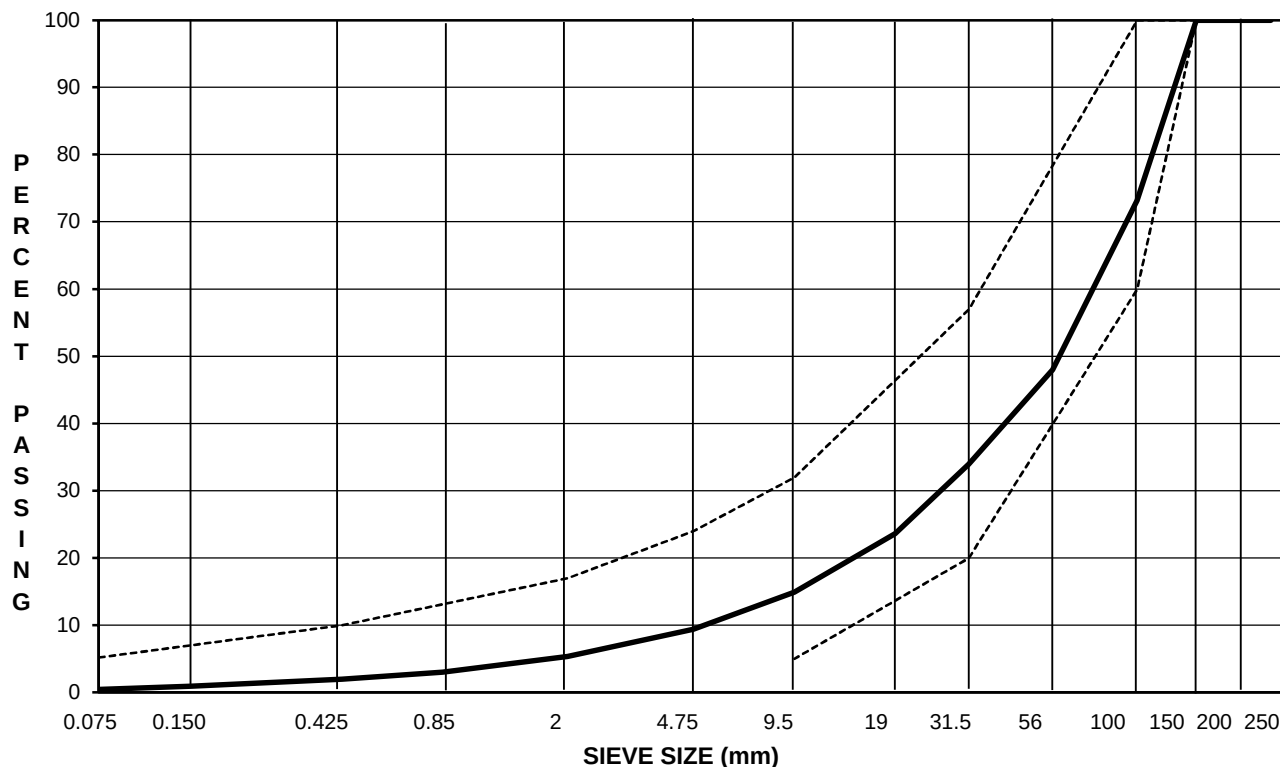
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: <u>PSD-1-AMQ-CF-20210224</u>
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>February 24, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO/DY</u> Tested By: <u>RO/DY</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 3</u>
Description: <u>Coarse Filter (150 mm Minus)</u>	Date Tested: <u>February 24, 2021</u>
Location: <u>Stockpile, east end</u>	Moisture Content: <u>8.1%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit			100	100		57		32	24	17		10		5
Lower Limit			100	60		20		5	0	0		0		0
Test Result	100	100	100	73	48	34	24	15	9	5	3	2	0.9	0

Remarks: _____

Reviewed By: _____ P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136

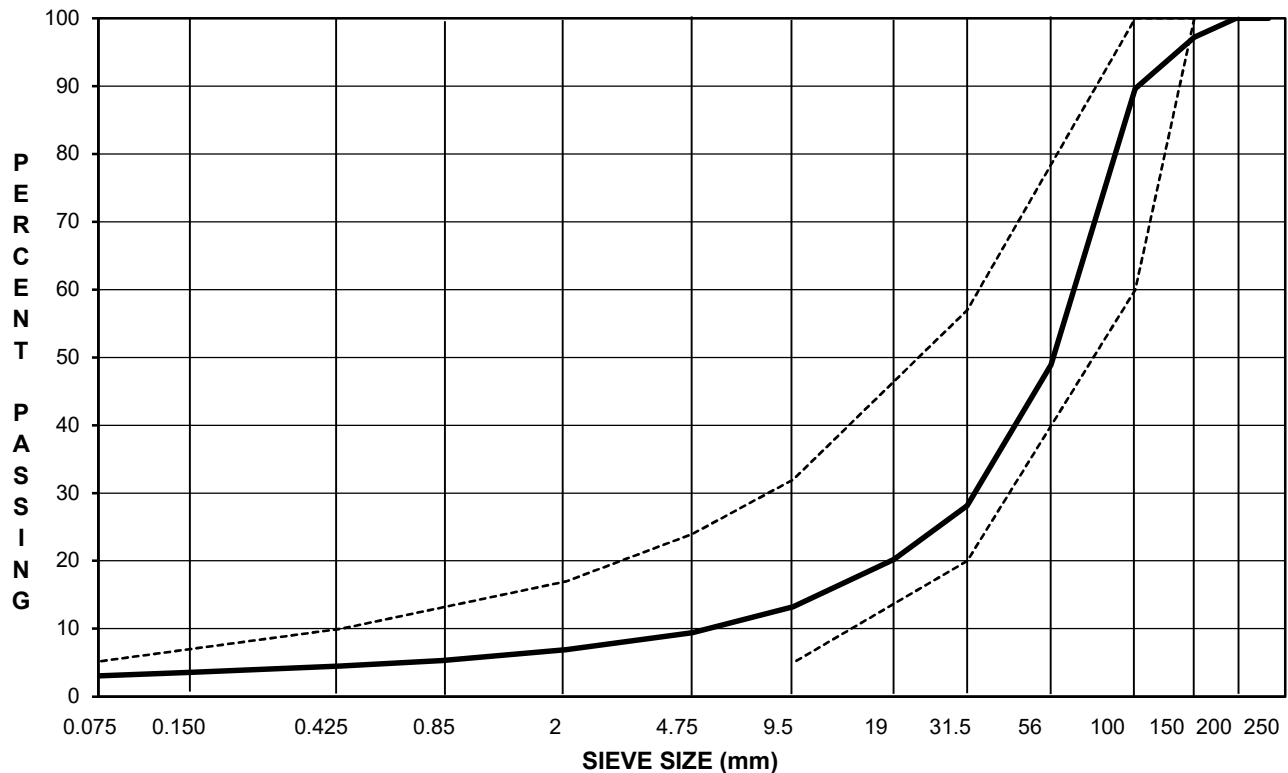
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: <u>PSD-2-AMQ-CF-20210224</u>
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>February 24, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO/DY</u> Tested By: <u>RO/DY</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 3</u>
Description: <u>Coarse Filter (150 mm Minus)</u>	Date Tested: <u>February 25, 2021</u>
Location: <u>Stockpile, loader assisted</u>	Moisture Content: <u>8.3%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit			100	100		57		32	24	17		10		5
Lower Limit			100	60		20		5	0	0		0		0
Test Result	100	100	97	90	49	28	20	13	9	7	5	4	4	3

Remarks: _____

Reviewed By: _____ P.Eng.



APPENDIX G-1D

**QC Laboratory Results – Zone 4
Esker Material**

SIEVE ANALYSIS REPORT

ASTM C136

Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-1-AMQ-Esker-20210219
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>February 19, 2021 @ 14:15</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>DY/RO</u> Tested By: <u>DY/RO</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 4</u>
Description: <u>Esker (200 mm Minus)</u>	Date Tested: <u>February 20, 2021</u>
Location: <u>"East" Esker Stockpile, six locations</u>	Moisture Content: <u>10.7%</u>

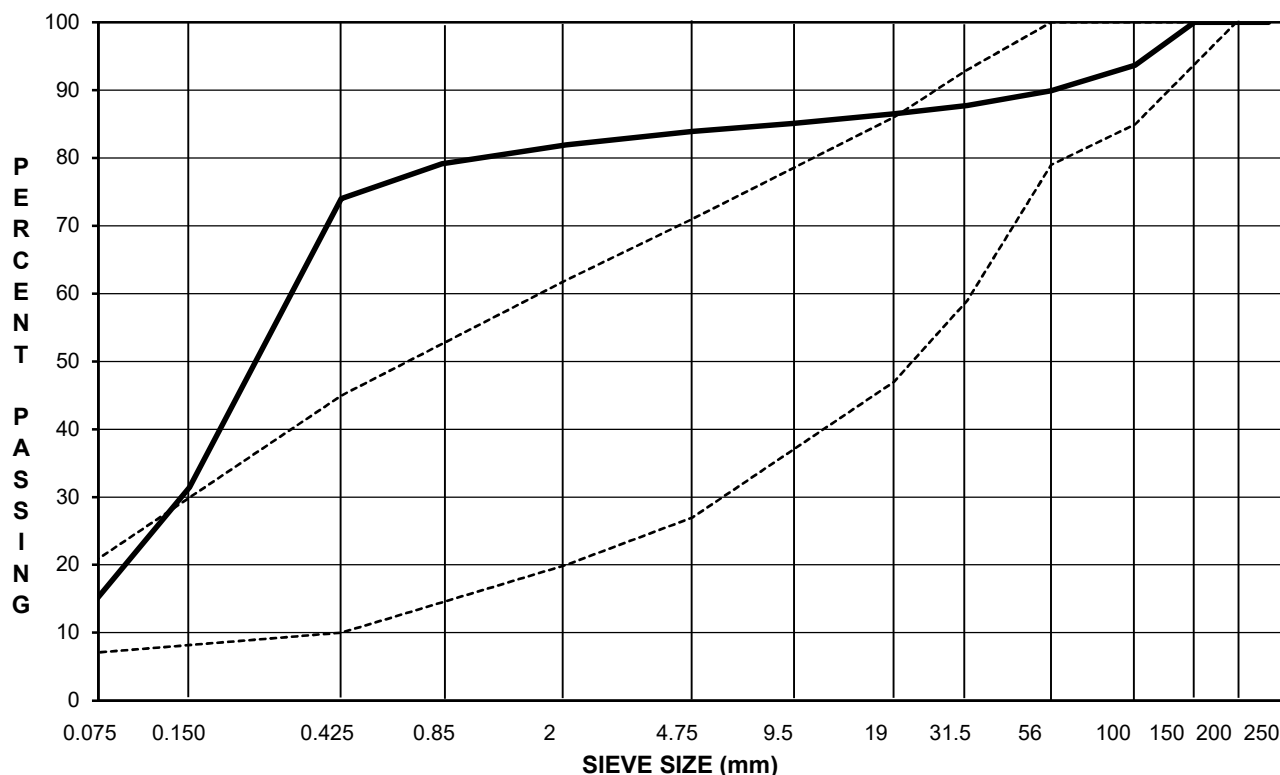
Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit		100		100	100	93	86		71	62		45		20
Lower Limit		100		85	79	59	47		27	20		10		7
Test Result	100	100	100	94	90	88	86	85	84	82	79	74	31.4	14

Remarks: Oversize observed in stockpile. Frozen

chunks present.

Reviewed By: _____ P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136

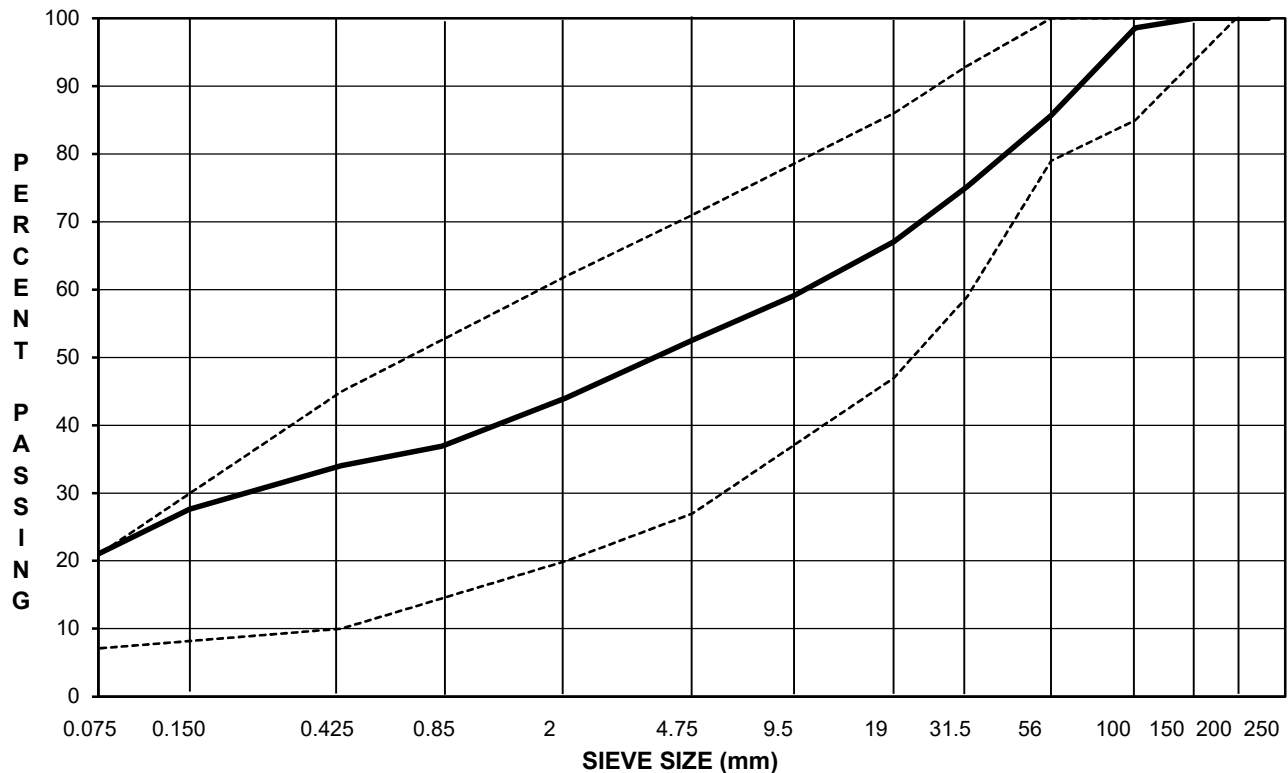
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-2-AMQ-Esker-20210219
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>February 19, 2021 @ 15:30</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>DY/RO</u> Tested By: <u>DY/RO</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 4</u>
Description: <u>Esker (200 mm Minus)</u>	Date Tested: <u>February 22, 2021</u>
Location: <u>"West" Esker stockpile, six locations</u>	Moisture Content: <u>10.2%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit		100		100	100	93	86		71	62		45		20
Lower Limit		100		85	79	59	47		27	20		10		7
Test Result	100	100	100	99	86	75	67	59	53	44	37	34	27.6	20

Remarks: Some oversize observed in pile. Small
frozen chunks present.

Reviewed By: _____ P.Eng.



APPENDIX G-1E

QC Laboratory Results – Bentonite Material

SIEVE ANALYSIS REPORT

ASTM C136

Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: <u>PSD-1-AMQ-Bent-20210210</u>
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>February 24, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>RO/DY</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2B</u>
Description: <u>Bentonite for FFAB production</u>	Fracture (2 faces): <u>-</u>
Location: <u>Ripped bag in storage seacans</u>	Moisture Content: <u>14.7%</u>

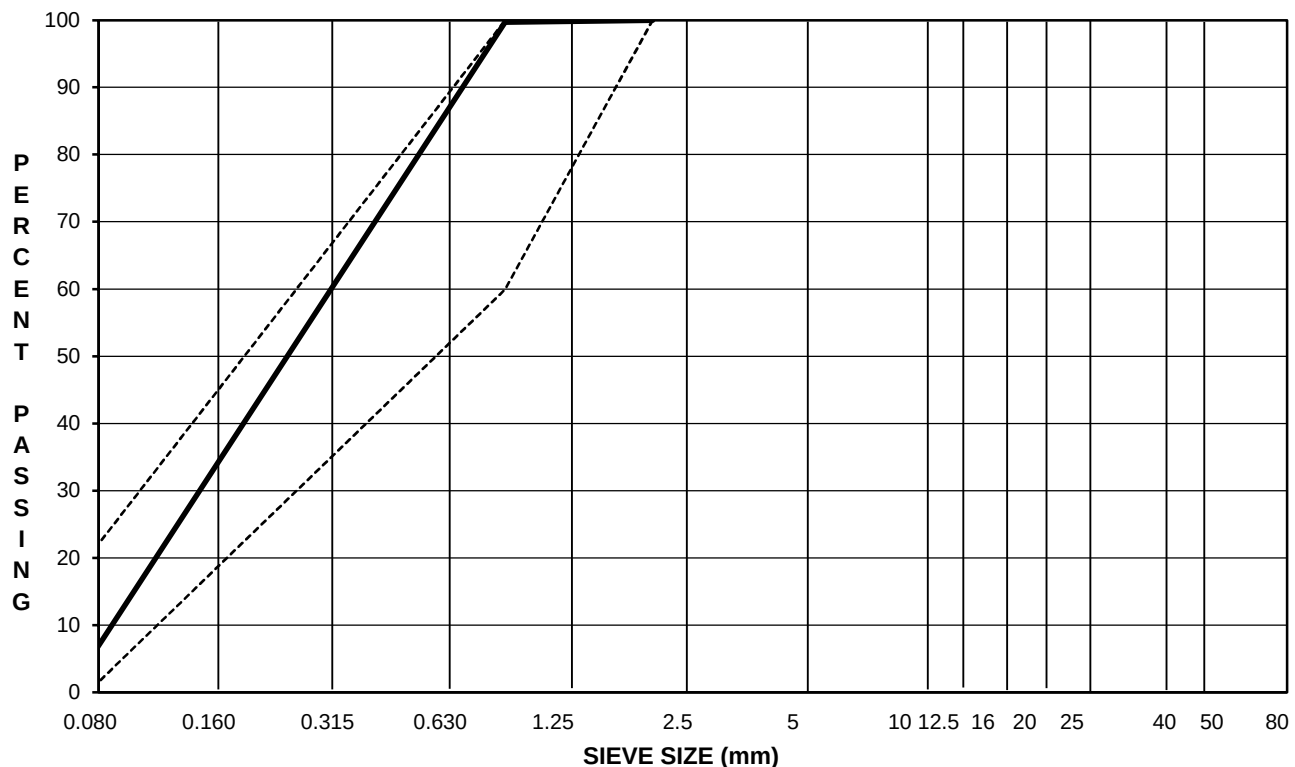
Aggregate Gradation (% Passing)

Sieve Size (um)	75000	63000	50000	31500	25000	19000	13000	10000	4750	2000	850	425	150	75
Upper Limit										100	100			20
Lower Limit										100	60			0
Test Result										100.0	99.7			4.5

Remarks: _____

Only specified sieves have been plotted _____

Reviewed By: _____ P.Eng.



APPENDIX G-2

IVR Dike QC Laboratory Results

APPENDIX G-2A

**QC Laboratory Results – Zone 2A
Fine Filter Material**

SIEVE ANALYSIS REPORT

ASTM C136 & C117

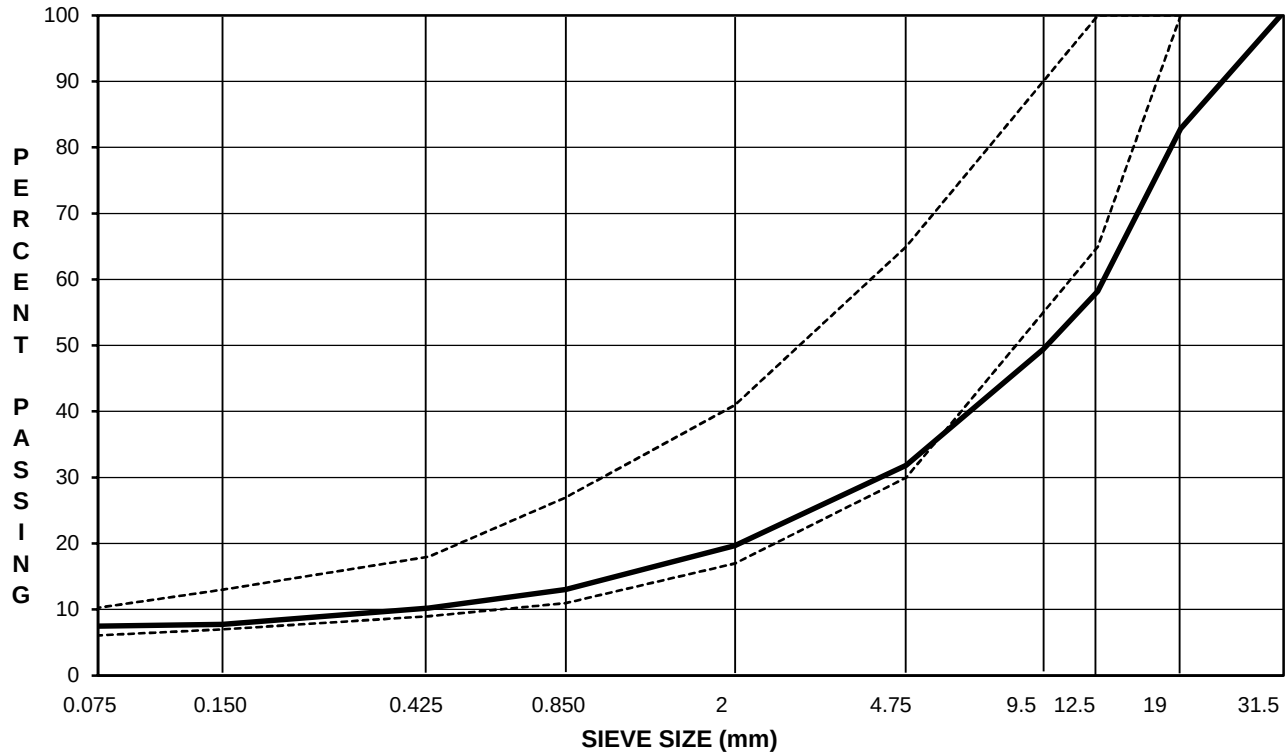
Project:	Amaruq IVR D-1 Dike Q.C.	Sample Number:	PSD-4-AMQ-FF-20210303
Project No.:	ENG.EARC03222-01	Date Sampled:	March 3, 2021
Client:	Agnico Eagle Mines Ltd.	Sampled By:	JRC
Attention:	Jennifer Pyluk	Tested By:	JRC
Description:	Fine Filter (19 mm Minus)	Specification:	Zone 2A
Location:	Stockpile, loader dug into north face	Fracture (2 faces):	-
		Moisture Content:	2.6%

Aggregate Gradation (% Passing)

Sieve Size (um)	200000	150000	100000	56000	31500	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result					100	83	58	49	32	20	13	10	8	7

Remarks: _____

Reviewed By: _____ P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

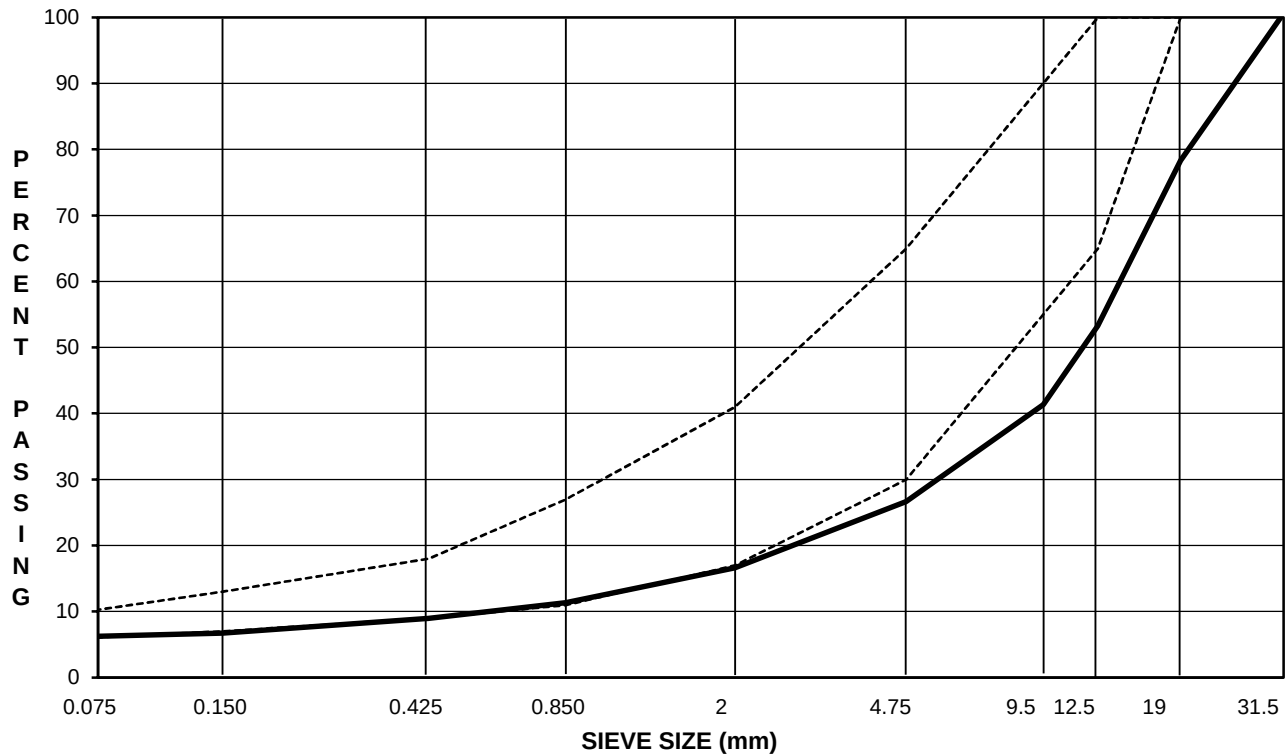
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: <u>PSD-5-AMQ-FF-20210313</u>
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 13, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>JRC</u> Tested By: <u>JRC</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter (19 mm Minus)</u>	Fracture (2 faces): <u>-</u>
Location: <u>Sampled at staion 0+240</u>	Moisture Content: <u>1.3%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	200000	150000	100000	56000	31500	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result					100	78	53	41	27	17	11	9	7	6

Remarks: _____

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

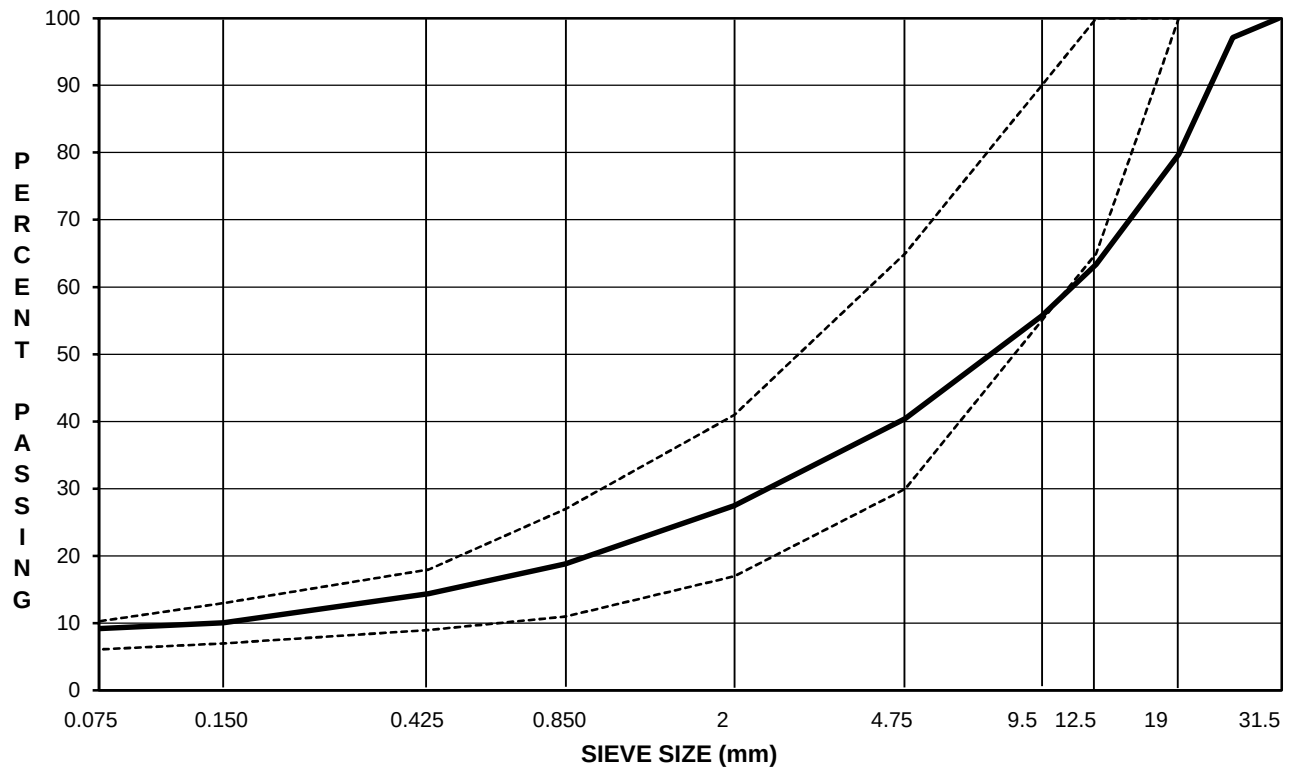
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Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 19, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>RO/DY</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter (19 mm Minus)</u>	Fracture (2 faces): <u>-</u>
Location: <u>Zone 2A fillet area, Sta. 0+350</u>	Moisture Content: <u>1.9%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	#####	#####	#####	31500	25000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result				100	97	80	63	56	40	27	19	14	10	9

Remarks: _____

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

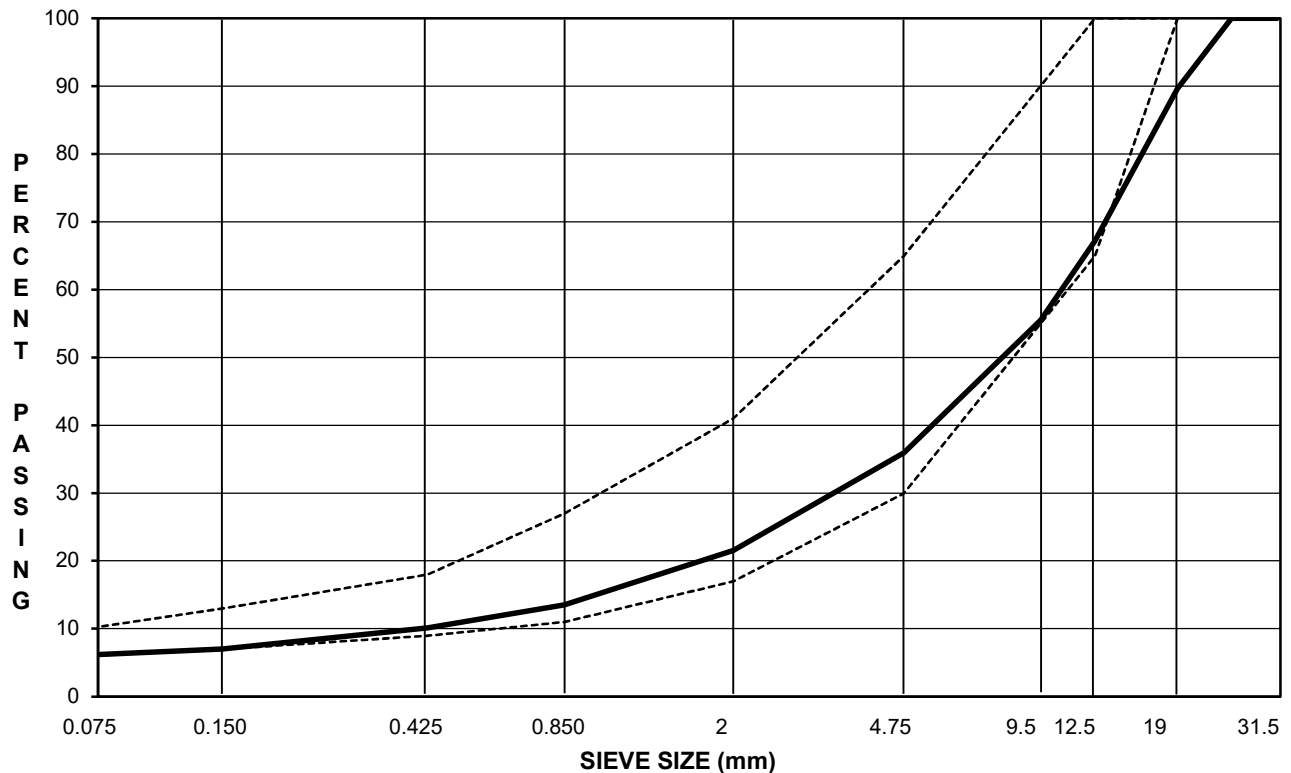
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-7-AMQ-FF-20210319
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 24, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>RO/DY</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter (19 mm Minus)</u>	Fracture (2 faces): <u>-</u>
Location: <u>Zone 2A fillet UL, Sta. 0+415</u>	Moisture Content: <u>2.4%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	#####	#####	#####	31500	25000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result				100	100	90	67	56	36	22	13	10	7	6

Remarks: _____

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

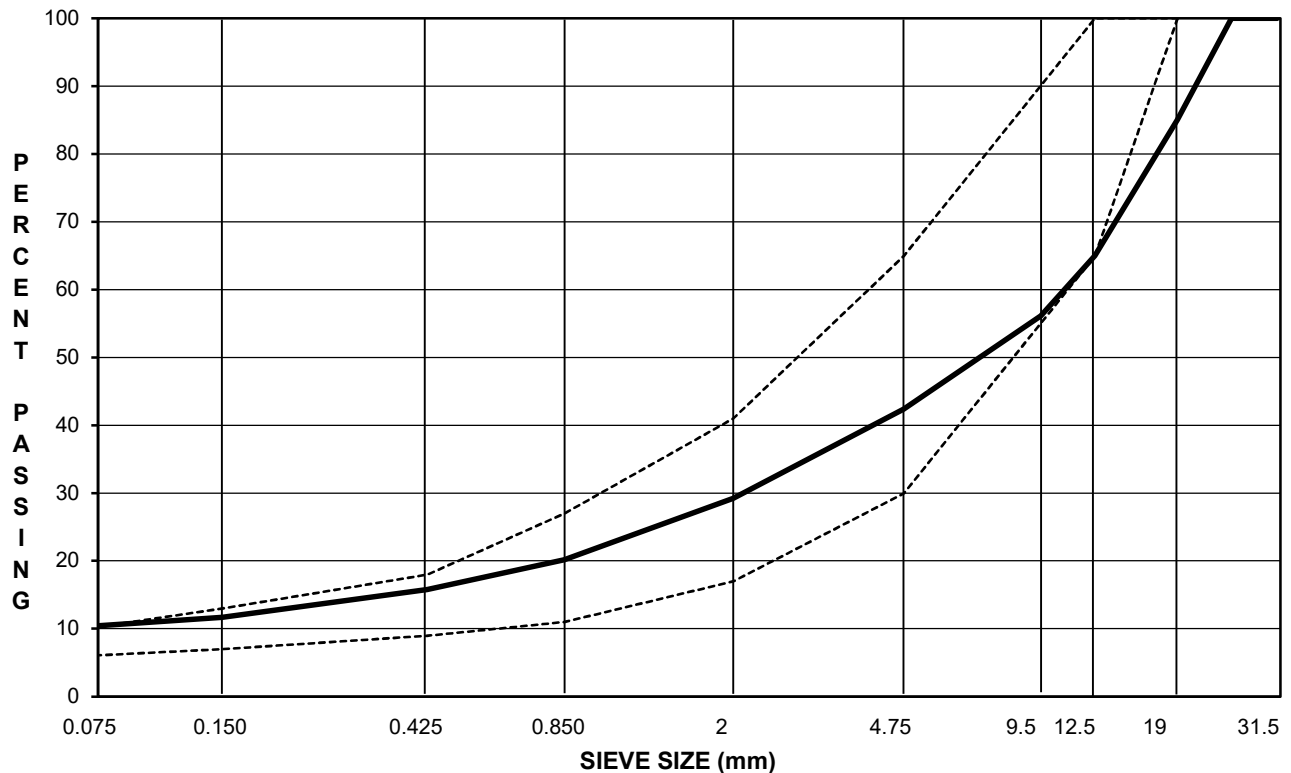
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-8-AMQ-FF-20210328
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 28, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>DY</u> Tested By: <u>RO/DY</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter (19 mm Minus)</u>	Fracture (2 faces): <u>-</u>
Location: <u>Zone 2A fillet UL, Sta. 0+125</u>	Moisture Content: <u>2.9%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	#####	#####	#####	31500	25000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result				100	100	85	65	56	42	29	20	16	12	10

Remarks: _____

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

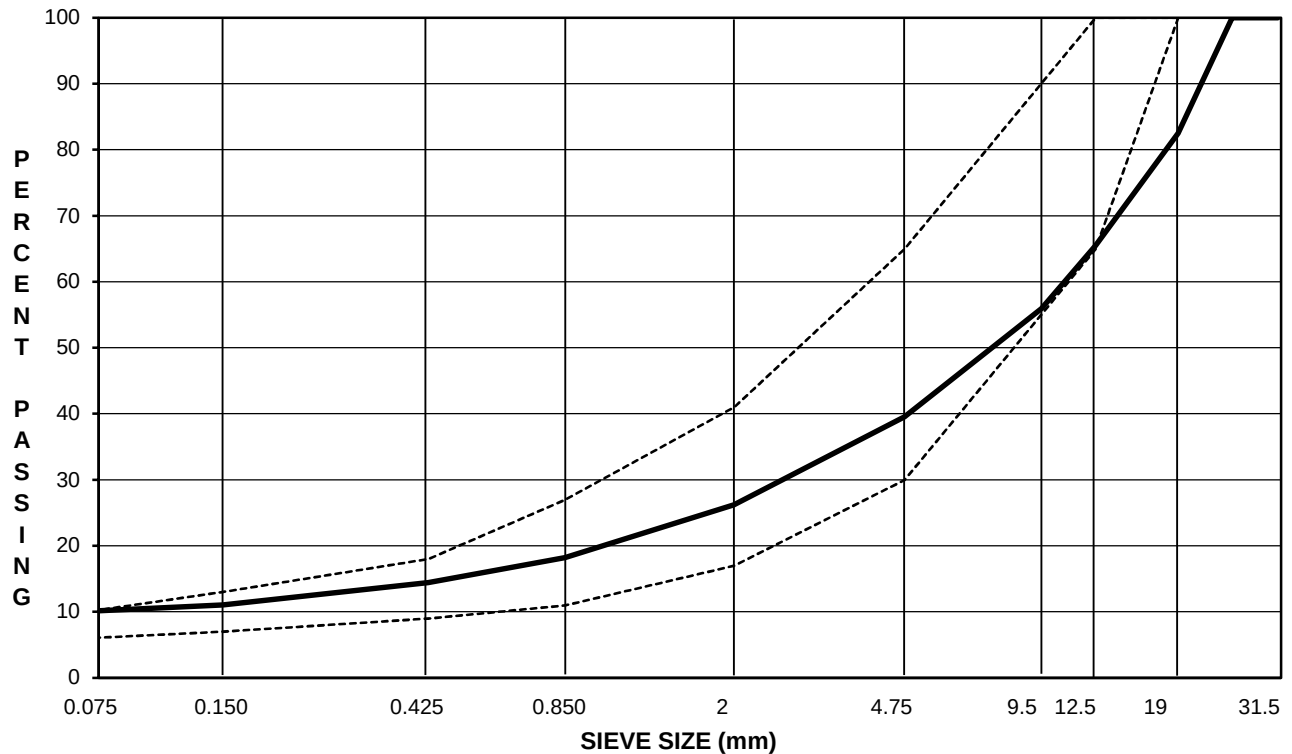
Project:	Amaruq IVR D-1 Dike Q.C.	Sample Number:	PSD-8-AMQ-FF-20210328
Project No.:	ENG.EARC03222-01	Date Sampled:	March 28, 2021
Client:	Agnico Eagle Mines Ltd.	Sampled By:	CP Tested By: JRC
Attention:	Jennifer Pyluk	Specification:	Zone 2A
Description:	Fine Filter (19 mm Minus)	Fracture (2 faces):	-
Location:	Zone 2A fillet UL, Sta. 0+125	Moisture Content:	2.3%

Aggregate Gradation (% Passing)

Sieve Size (um)	#####	#####	#####	31500	25000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result				100	100	82	65	56	40	26	18	14	11	10

Remarks: _____

Reviewed By: **ISSUED FOR REVIEW** P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

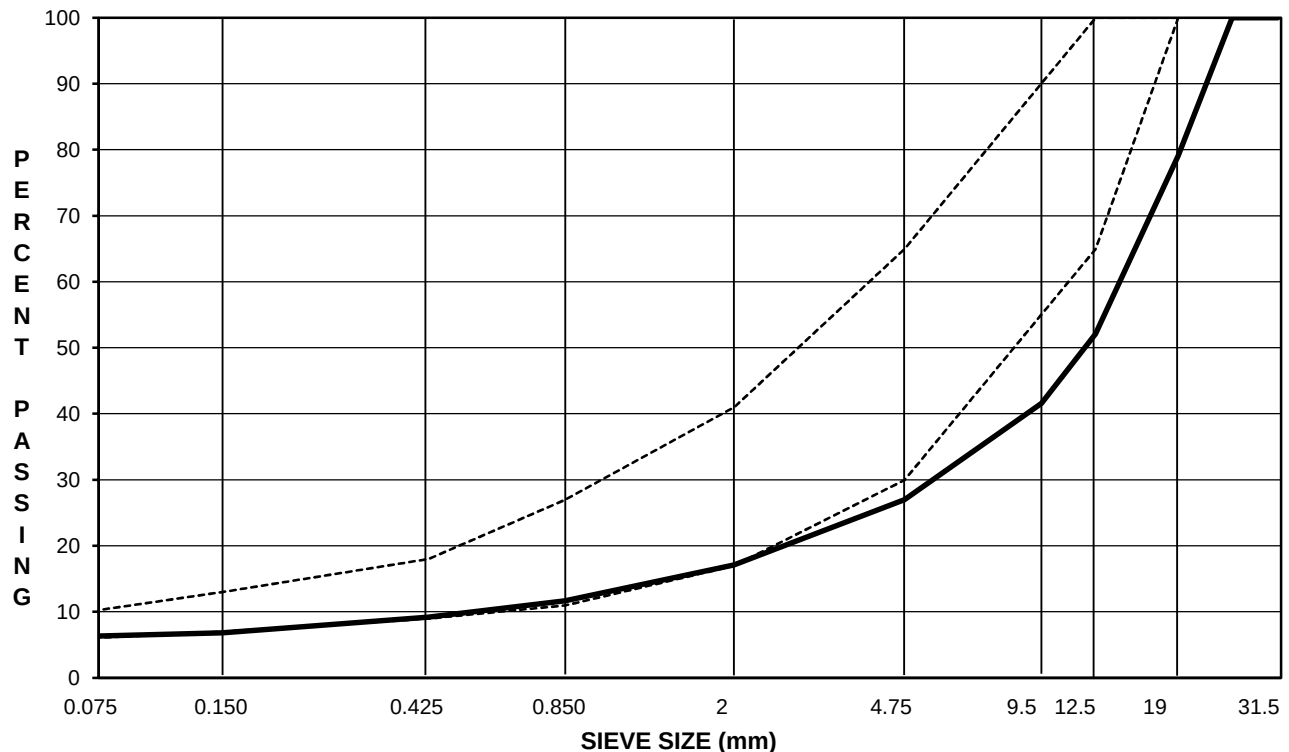
Project:	Amaruq IVR D-1 Dike Q.C.	Sample Number:	PSD-10-AMQ-FF-20210408
Project No.:	ENG.EARC03222-01	Date Sampled:	April 8, 2021
Client:	Agnico Eagle Mines Ltd.	Sampled By:	CP Tested By: JRC
Attention:	Jennifer Pyliuk	Specification:	Zone 2A
Description:	Fine Filter (19 mm Minus)	Fracture (2 faces):	-
Location:	Zone 2A 0+450	Moisture Content:	1.7%

Aggregate Gradation (% Passing)

Sieve Size (um)	#####	#####	#####	31500	25000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result				100	100	79	52	42	27	17	12	9	7	6

Remarks: _____

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

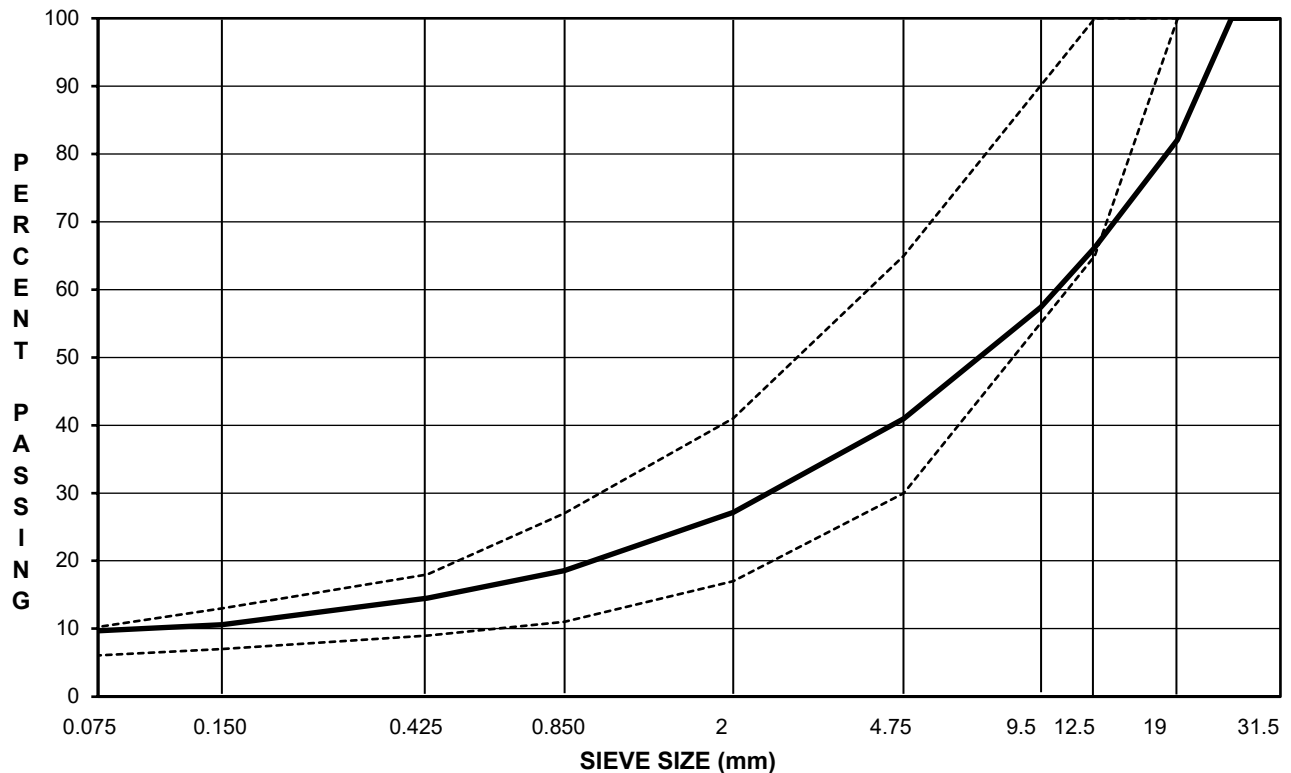
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: <u>PSD-11-AMQ-FF-20210411</u>
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 11, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>CP</u> Tested By: <u>JRC</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter (19 mm Minus)</u>	Fracture (2 faces): <u>-</u>
Location: <u>Zone 2A fillet UL, Sta. 0+490</u>	Moisture Content: <u>1.7%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	#####	#####	#####	31500	25000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result				100	100	82	66	57	41	27	19	14	11	10

Remarks: 7000 m³ of Zone 2A placed at the dike.

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SIEVE ANALYSIS REPORT

ASTM C136 & C117

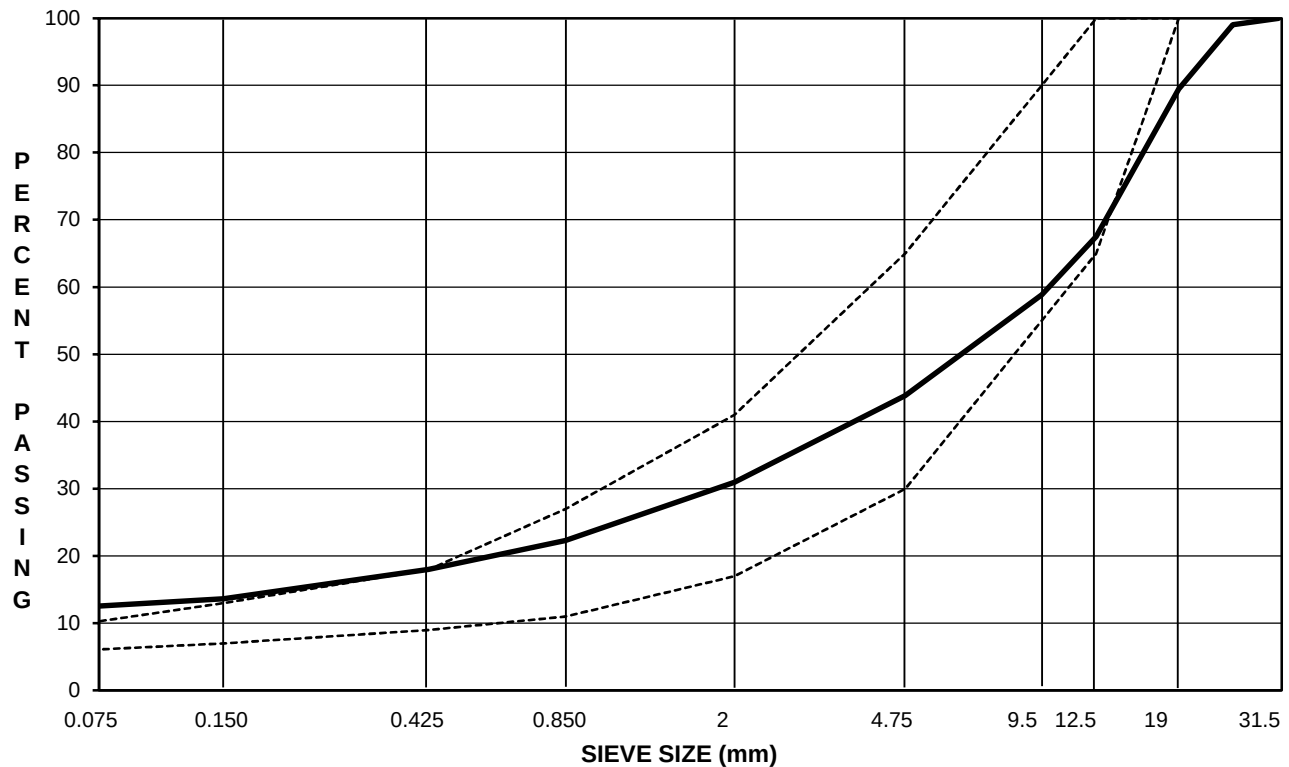
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: <u>PSD-12-AMQ-FF-20210416</u>
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 16, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>RO/DY</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter (19 mm Minus)</u>	Fracture (2 faces): <u>-</u>
Location: <u>Zone 2A UL, Sta. 0+465</u>	Moisture Content: <u>5.1%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	#####	#####	#####	31500	25000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result				100	99	89	68	59	44	31	22	18	14	12

Remarks: 8000 m³ of Zone 2A placed at the dike.

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

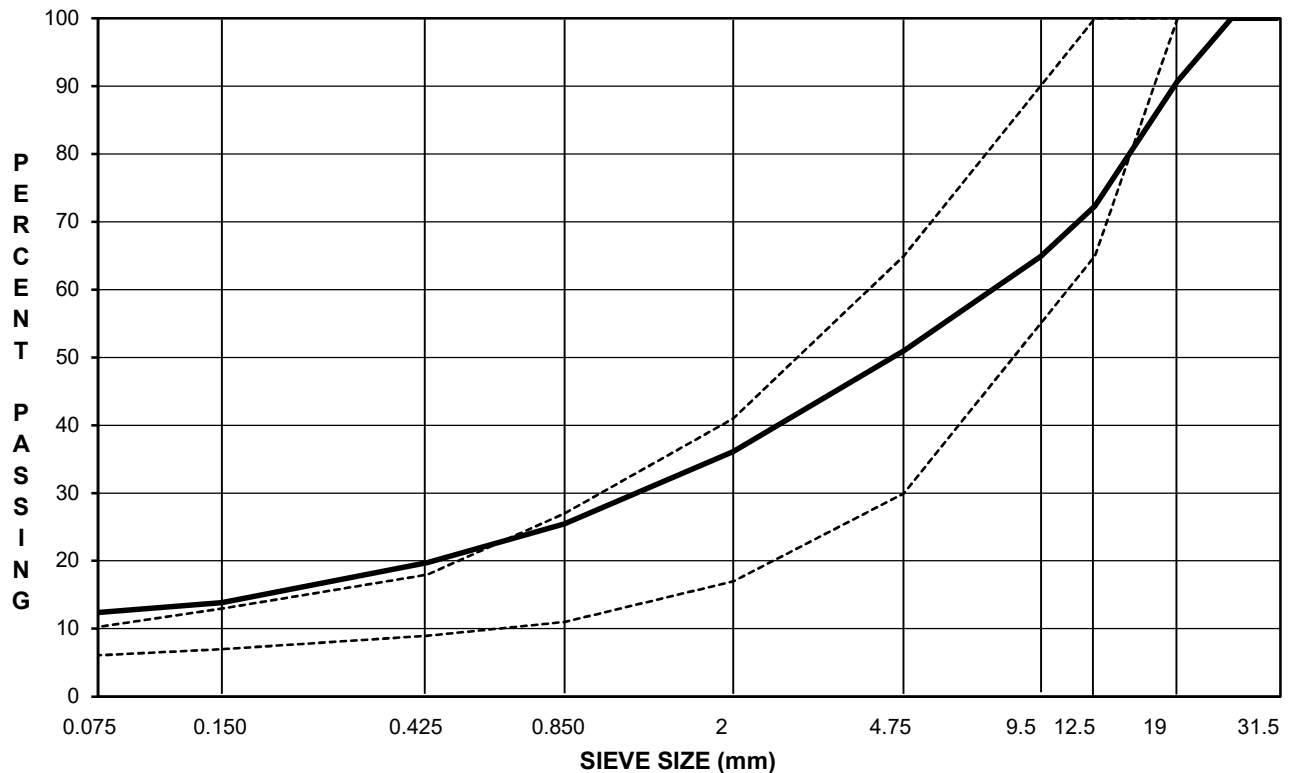
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-13-AMQ-FF-20210423
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 23, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>RO</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter (19 mm Minus)</u>	Fracture (2 faces): <u>-</u>
Location: <u>Spillway underliner</u>	Moisture Content: <u>3.5%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	#####	#####	#####	31500	25000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result				100	100	91	72	65	51	36	25	20	14	12

Remarks: _____

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

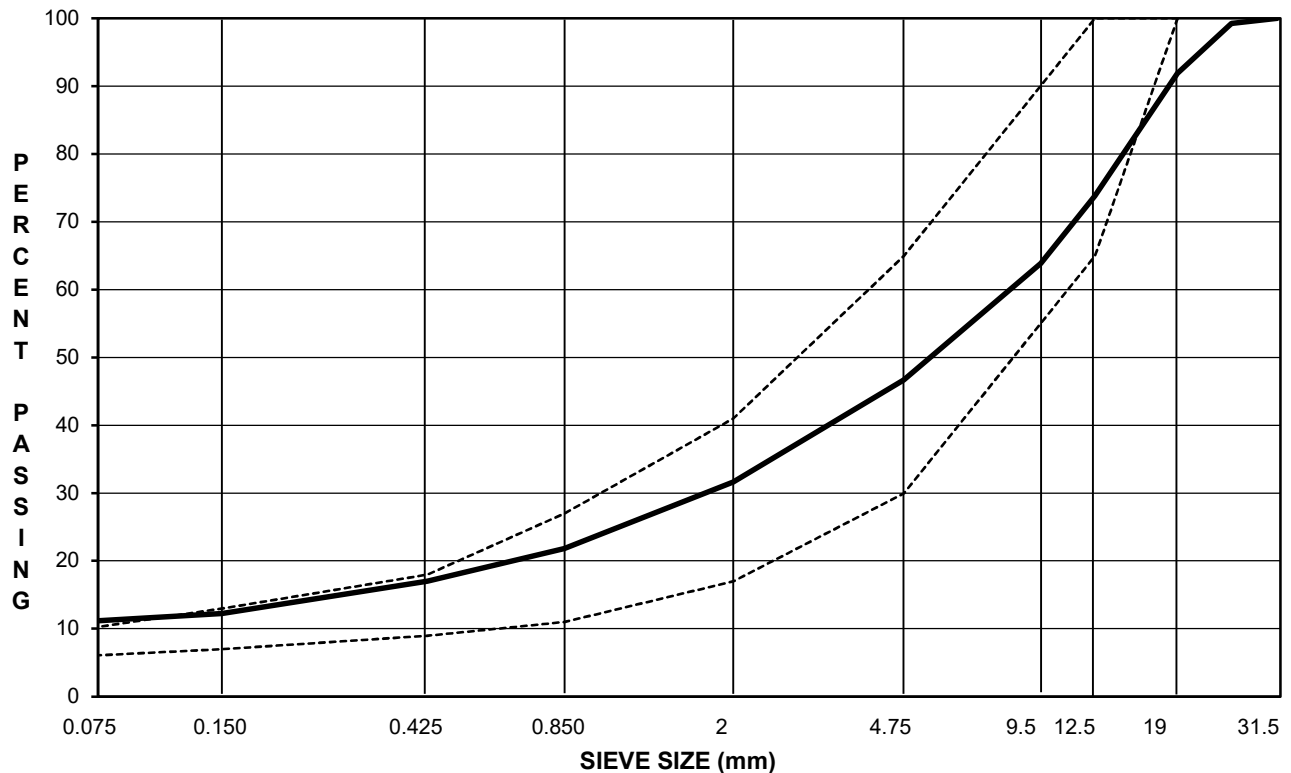
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-14-AMQ-FF-20210425
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 25, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>DY</u> Tested By: <u>DY/RO</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter (19 mm Minus)</u>	Fracture (2 faces): <u>-</u>
Location: <u>Station 0+490 Overliner</u>	Moisture Content: <u>3.2%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	#####	#####	#####	31500	25000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result				100	99	92	74	64	47	32	22	17	12	11

Remarks: _____

Reviewed By: ISSUED FOR REVIEW P.Eng.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -32 °C **Soil:** -8 °C
Attention: Jennifer Pyliuk **Date Tested:** March 4, 2021 Dayshift **By:** CP/JRC
Contractor: KCB **Construction Period:** March 4, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter) - 19 mm minus
Material Source: Zone 2A (Fine Filter) Test Pad **Proctor:** TBD kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	FF Test Pad; 2 passes over pad with packer	N/A	2063	4.4	1976	
2	150	FF Test Pad; 2 passes over pad with packer	N/A	1961	4.3	1880	
3	200	FF Test Pad; 4 passes over pad with packer	N/A	2065	4.7	1972	
4	150	FF Test Pad; 4 passes over pad with packer	N/A	2044	5.4	1939	
5	200	FF Test Pad; 6 passes over pad with packer	N/A	2102	4.8	2006	
6	200	FF Test Pad; 6 passes over pad with packer	N/A	2004.8	4.8	1913	
7	150	FF Test Pad; 8 passes over pad with packer	N/A	2037.2	5.5	1931	
8	200	FF Test Pad; 8 passes over pad with packer	N/A	1996.4	4.8	1905	
			Average =	2034	4.8	1940	#DIV/0!
				DS =	1946	MS =	573

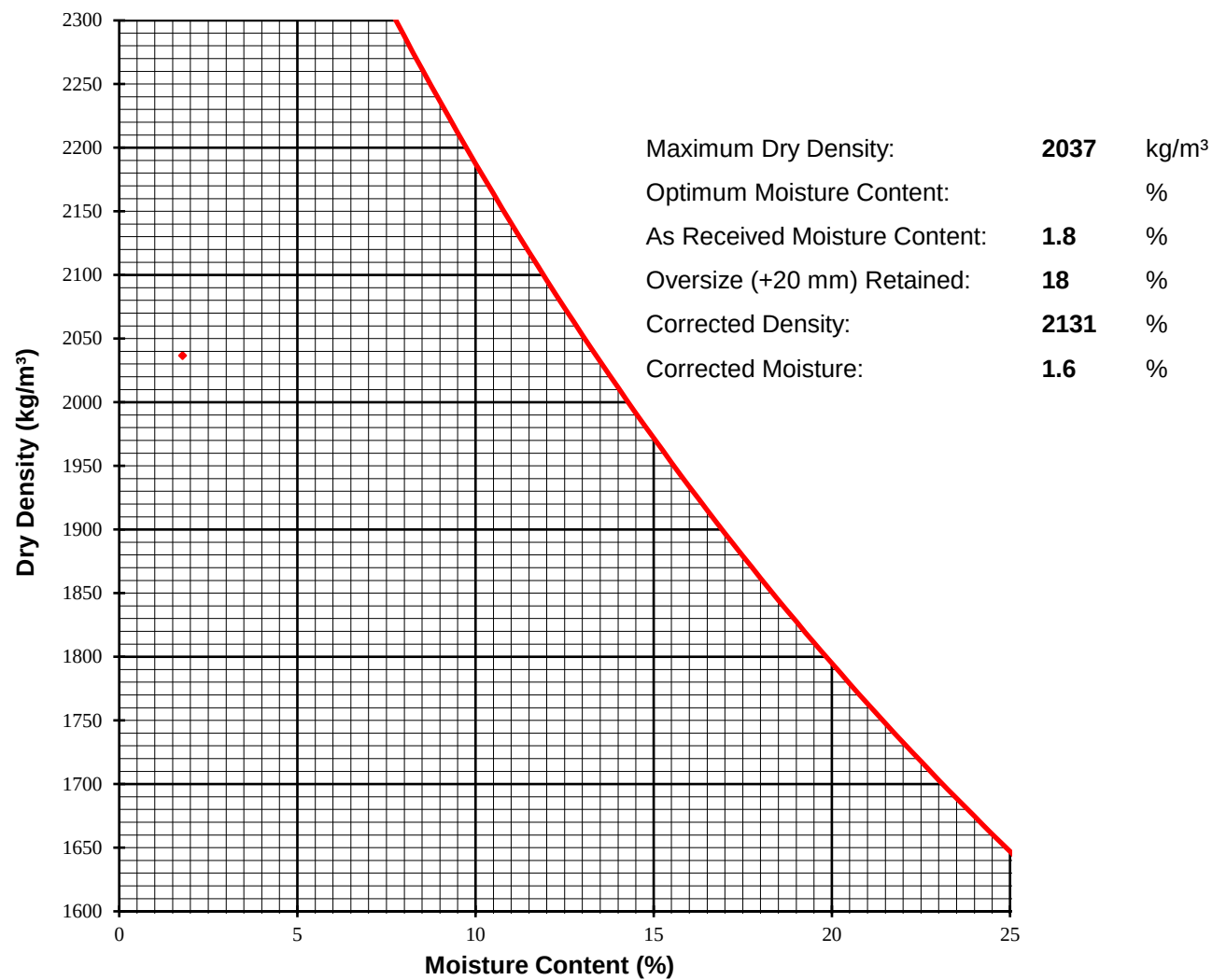
Remarks: FF material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1 for FFAB.
Test pad for FF not required per spec., but was completed for comparison to FFAB.



MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT

ASTM D1557 Modified

Project:	Amaruq IVR D-1 Dike Q.C.	Sample No.:	MDR-2-FF-20210310
Client:	Agnico Eagle Mines Ltd.	Sampled By:	JRC
Attention:	Jennifer Pyliuk	Sample Date:	March 10, 2021
Project No.:	704-ENG.EAR03222-01	Test Date:	March 10, 2021
Description:	Zone 2A (Fine Filter Material - 19 mm minus)	Preparation:	Moist
Source:	Stockpile	Compaction:	Manual



Remarks: Single point proctor on frozen Zone 2A material

Reviewed By: ISSUE FOR REVIEW ASCT

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APPENDIX G-2B

**QC Laboratory Results – Zone 2B
FFAB Material**

SIEVE ANALYSIS REPORT

ASTM C136 & C117

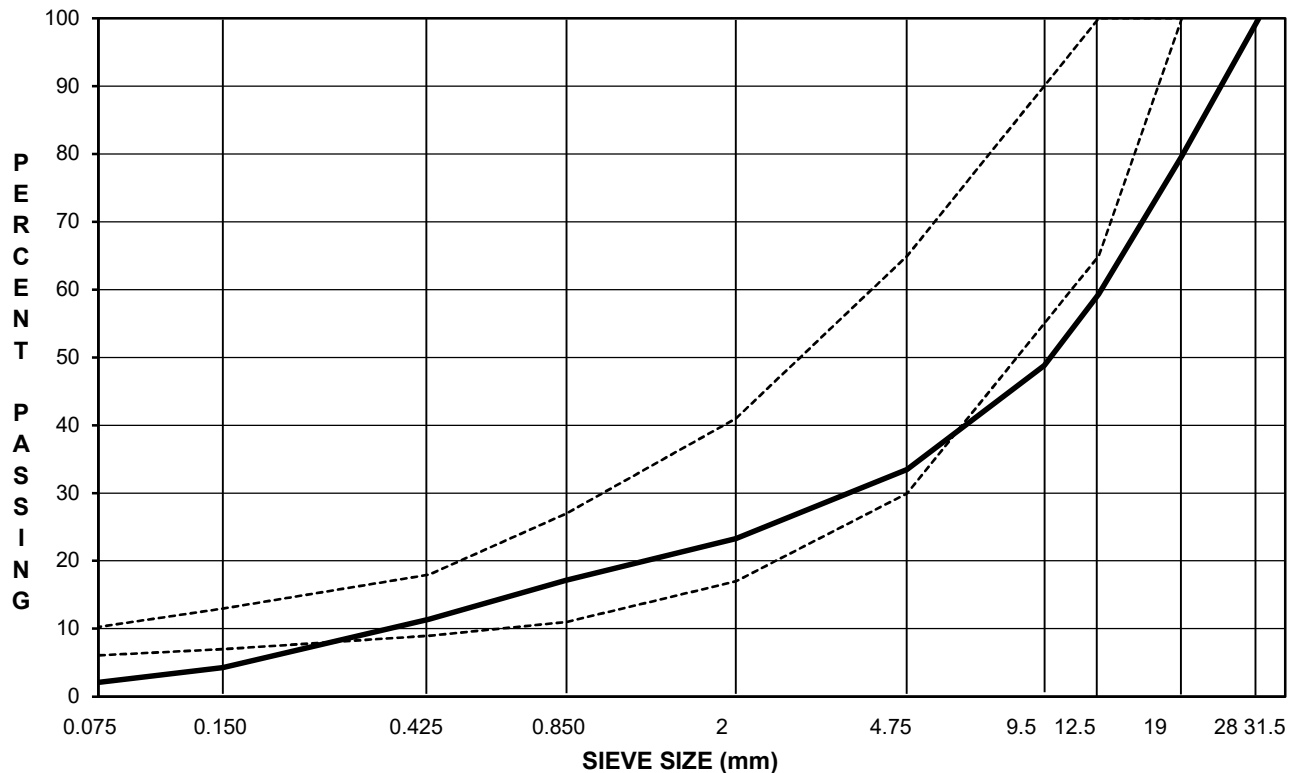
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-4-AMQ-FFAB-20210312
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 12, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>CP/JRC</u> Tested By: <u>JRC</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter Ammended with Bentonite</u>	Fracture (2 faces): _____
Location: <u>FFAB test pad</u>	Moisture Content: _____

Aggregate Gradation (% Passing)

Sieve Size (um)	150000	100000	56000	31500	28000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result					100	80	59	49	33	23	17	11	4	2

Remarks: Dry sieve. Zone 2A specification band.

Reviewed By: _____ P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

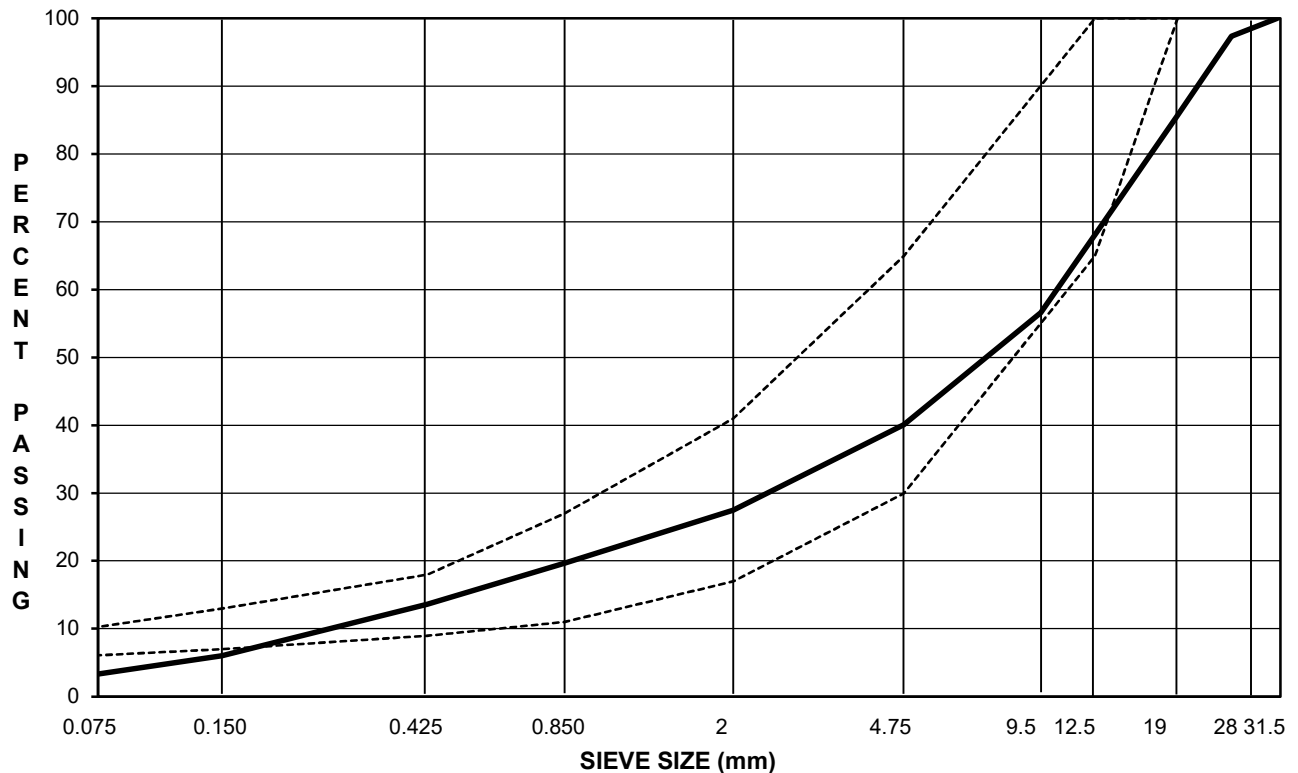
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-5-AMQ-FFAB-20210317
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 17, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>RO/DY</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter Ammended with Bentonite</u>	Fracture (2 faces): <u></u>
Location: <u>Lift #2; Sta. 0+336 underliner</u>	Moisture Content: <u></u>

Aggregate Gradation (% Passing)

Sieve Size (um)	#####	#####	56000	31500	25000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result				100	97	86	68	57	40	27	20	14	6	3

Remarks: Dry sieve. Zone 2A specification band.

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-6-AMQ-FFAB-20210317
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 17, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>RO/DY</u>
Attention: <u>Jennifer Pyluk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter Ammended with Bentonite (4-6</u>	Fracture (2 faces): <u></u>
Location: <u>Overliner; Sta. 0+180</u>	Moisture Content: <u>1.6%</u>

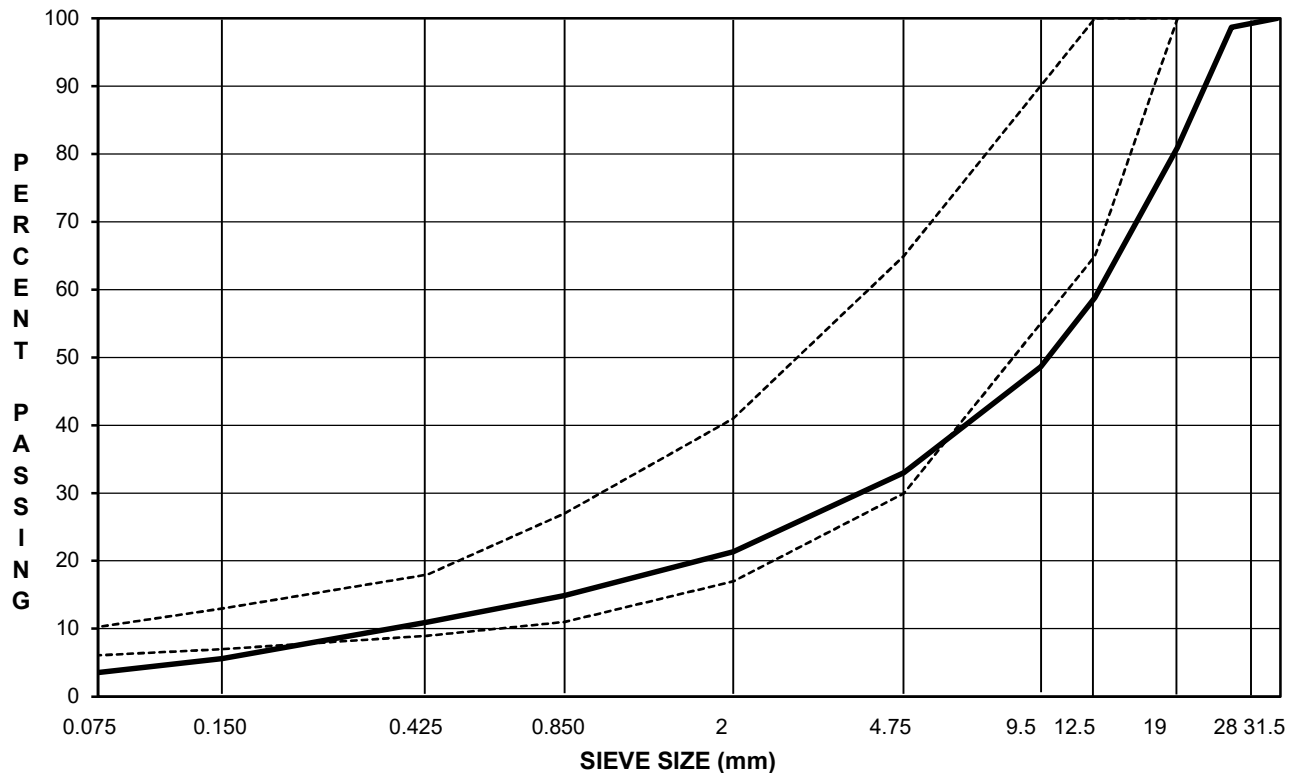
Aggregate Gradation (% Passing)

Sieve Size (um)	#####	#####	56000	31500	25000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result				100	99	81	59	49	33	21	15	11	6	3

Remarks: Dry sieve. Zone 2A specification band.

Material is a blend of 4%-6% bentonite ratio

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-7-AMQ-FFAB-20210320
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 20, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>DY</u> Tested By: <u>RO/DY</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter Ammended with Bentonite (6% Fracture (2 faces):</u>	
Location: <u>Hinge underliner; Sta. 0+350</u>	Moisture Content: <u>3.3%</u>

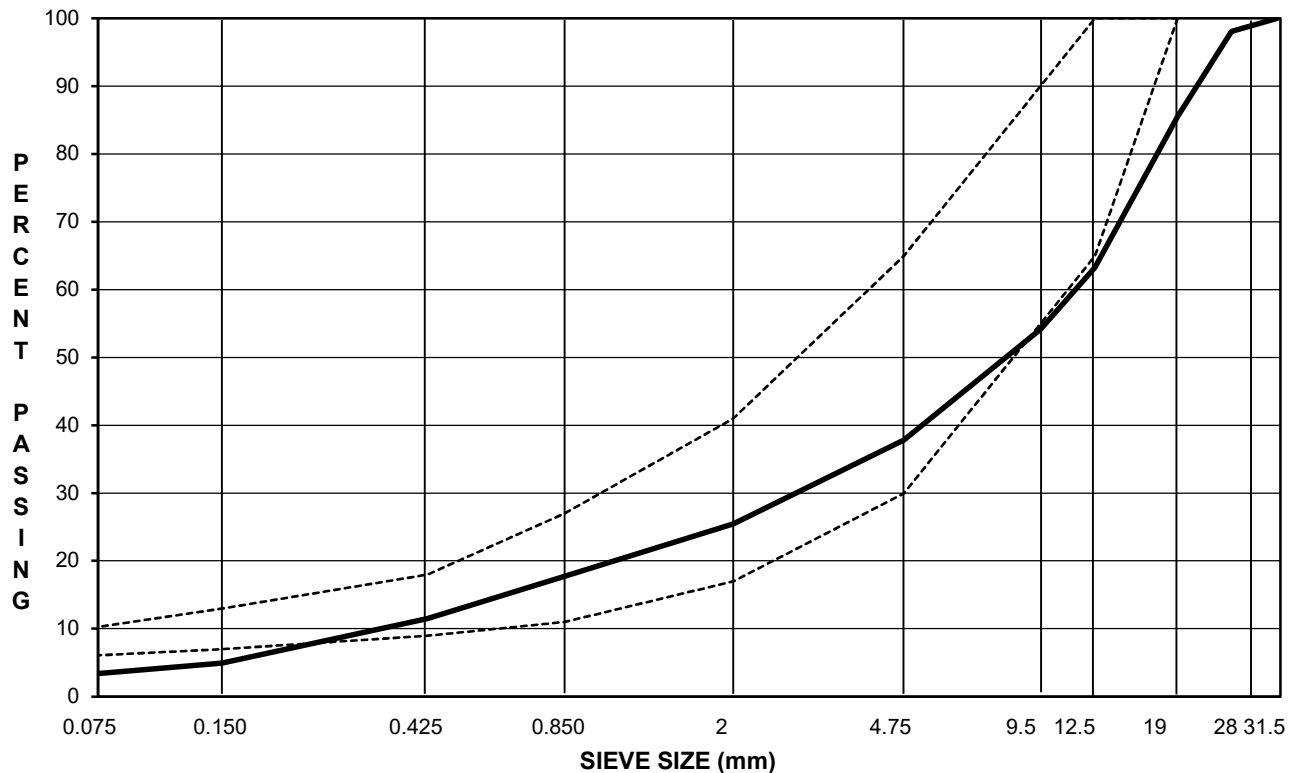
Aggregate Gradation (% Passing)

Sieve Size (um)	#####	#####	56000	31500	25000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result				100	98	85	63	54	38	25	18	11	5	3

Remarks: No wash. Zone 2A specification band.

Material is a 6% bentonite ratio

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SIEVE ANALYSIS REPORT

ASTM C136 & C117

Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-8-AMQ-FFAB-20210324
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 24, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>RO</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2A</u>
Description: <u>Fine Filter Ammended with Bentonite (4% Fracture (2 faces):</u>	
Location: <u>Underliner; Station 0+400</u>	Moisture Content: <u>1.9%</u>

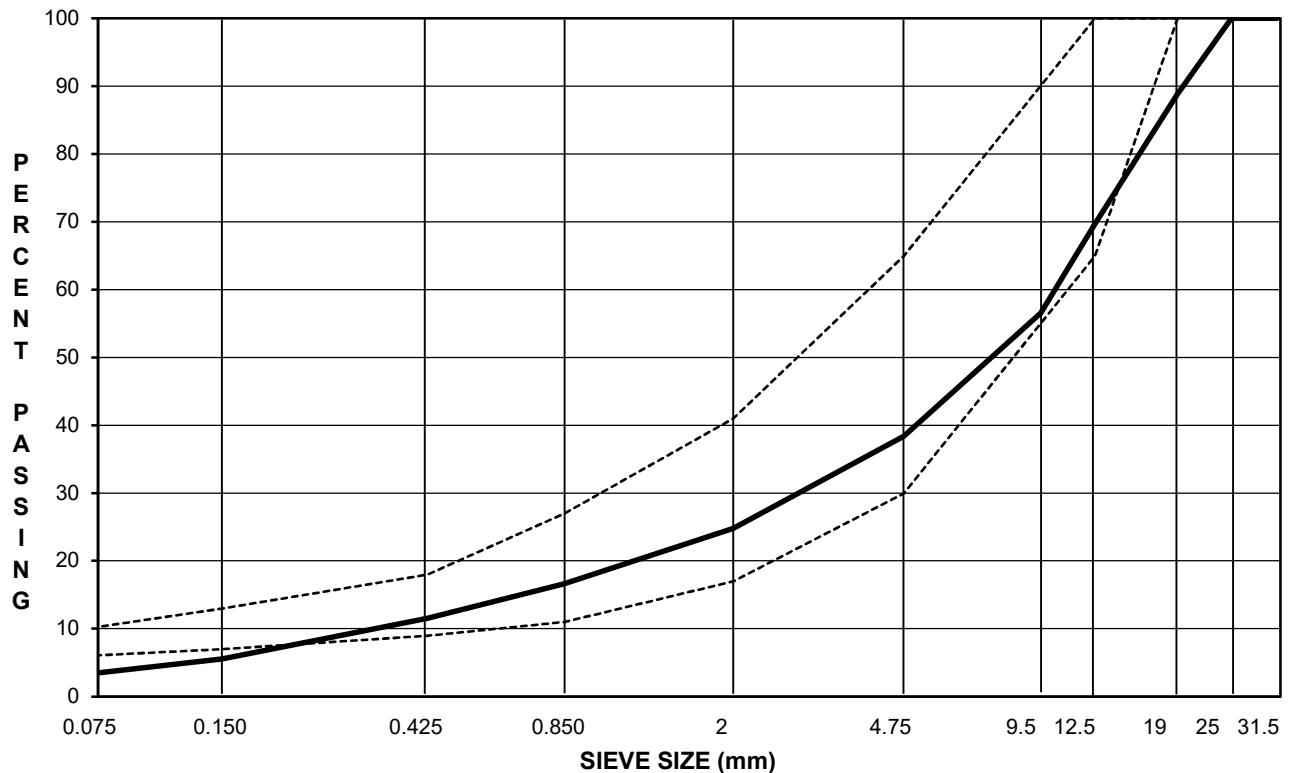
Aggregate Gradation (% Passing)

Sieve Size (um)	#####	#####	56000	31500	25000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result				100	100	89	70	57	38	25	17	12	6	3

Remarks: No wash. Zone 2A specification band.

Material is a 4% bentonite ratio

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-9-AMQ-FFAB-20210331
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 31, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>JRC</u> Tested By: <u>JRC</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2B (FFAB 4%)</u>
Description: <u>Fine Filter Ammended with Bentonite</u>	Fracture (2 faces): <u></u>
Location: <u>Stockpile</u>	Moisture Content: <u></u>

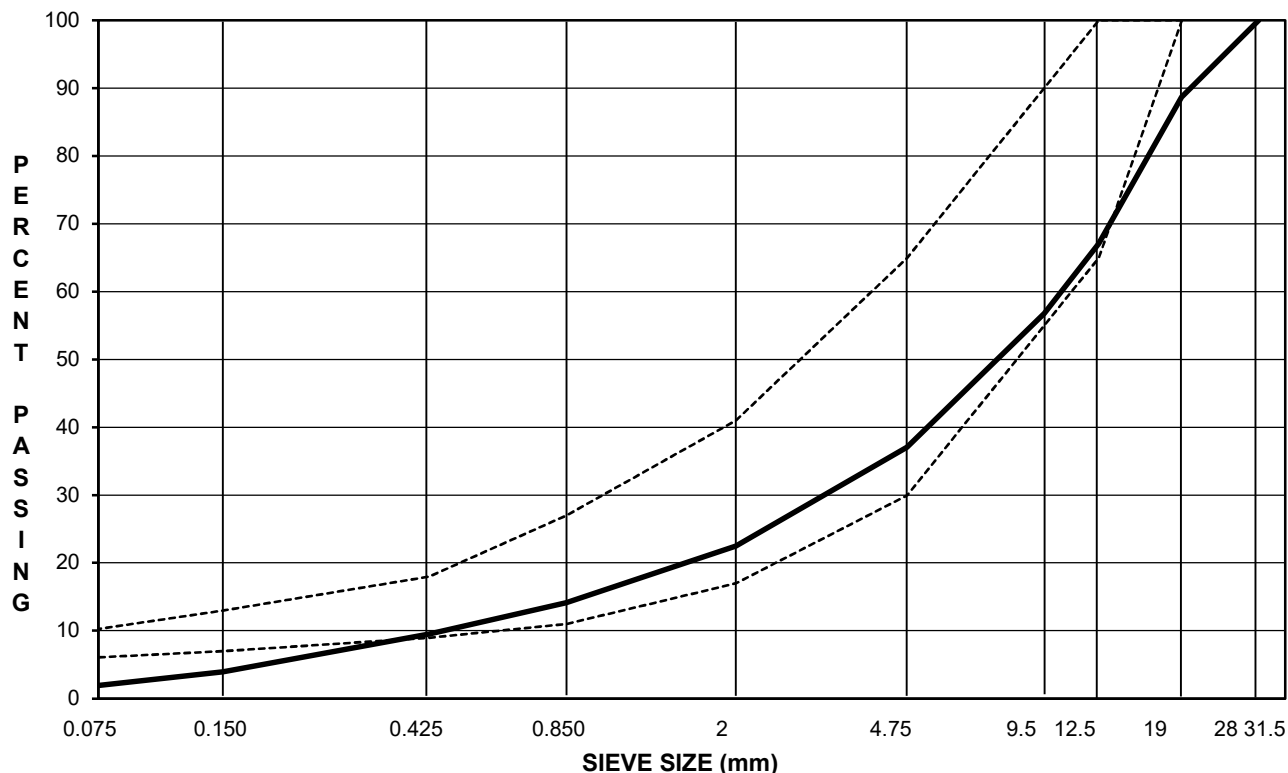
Aggregate Gradation (% Passing)

Sieve Size (um)	150000	100000	56000	31500	28000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result					100	89	67	57	37	22	14	10	4	2

Remarks: Dry sieve. Zone 2A specification band.

No wash.

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

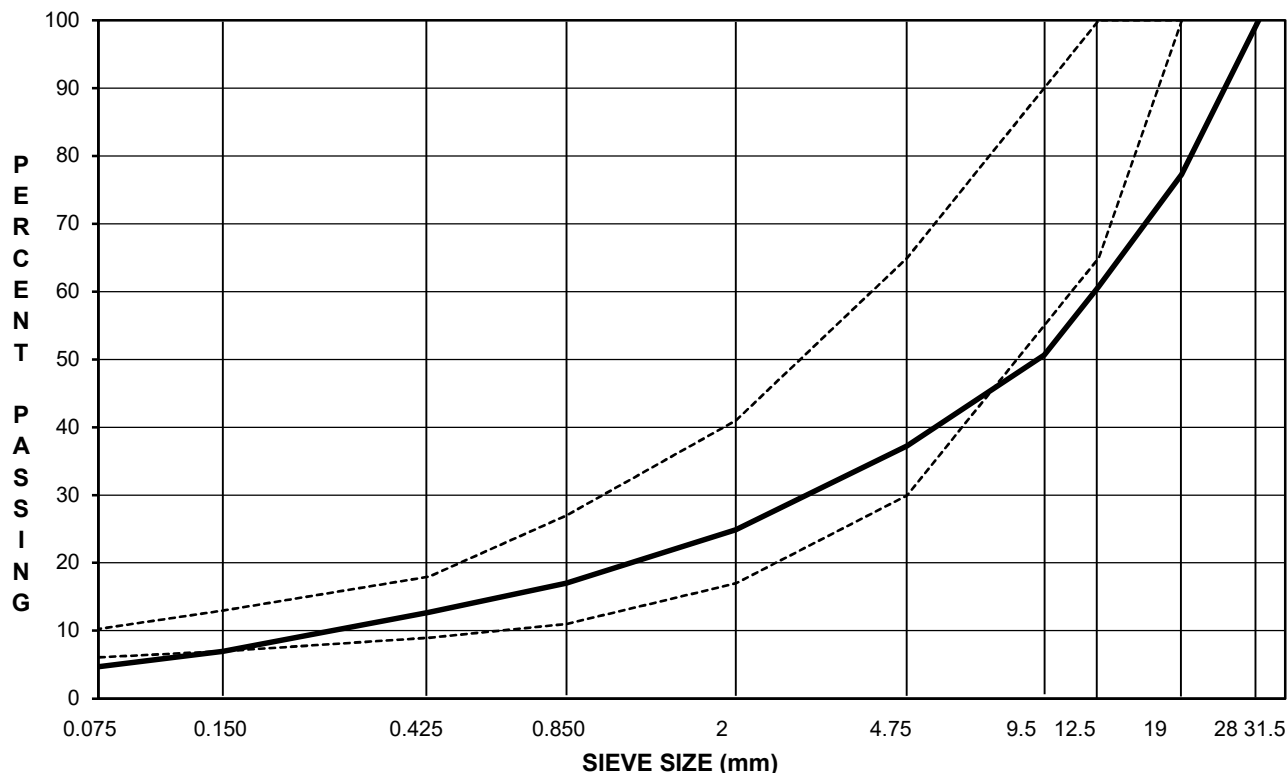
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-10-AMQ-FFAB-20210402
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 2, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>JRC</u> Tested By: <u>JRC</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2B (FFAB 4%)</u>
Description: <u>Fine Filter Ammended with Bentonite</u>	Fracture (2 faces): _____
Location: <u>Stockpile</u>	Moisture Content: <u>2.1%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	150000	100000	56000	31500	28000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result					100	77	61	51	37	25	17	13	7	4

Remarks: Dry sieve. Zone 2A specification band.

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SIEVE ANALYSIS REPORT

ASTM C136 & C117

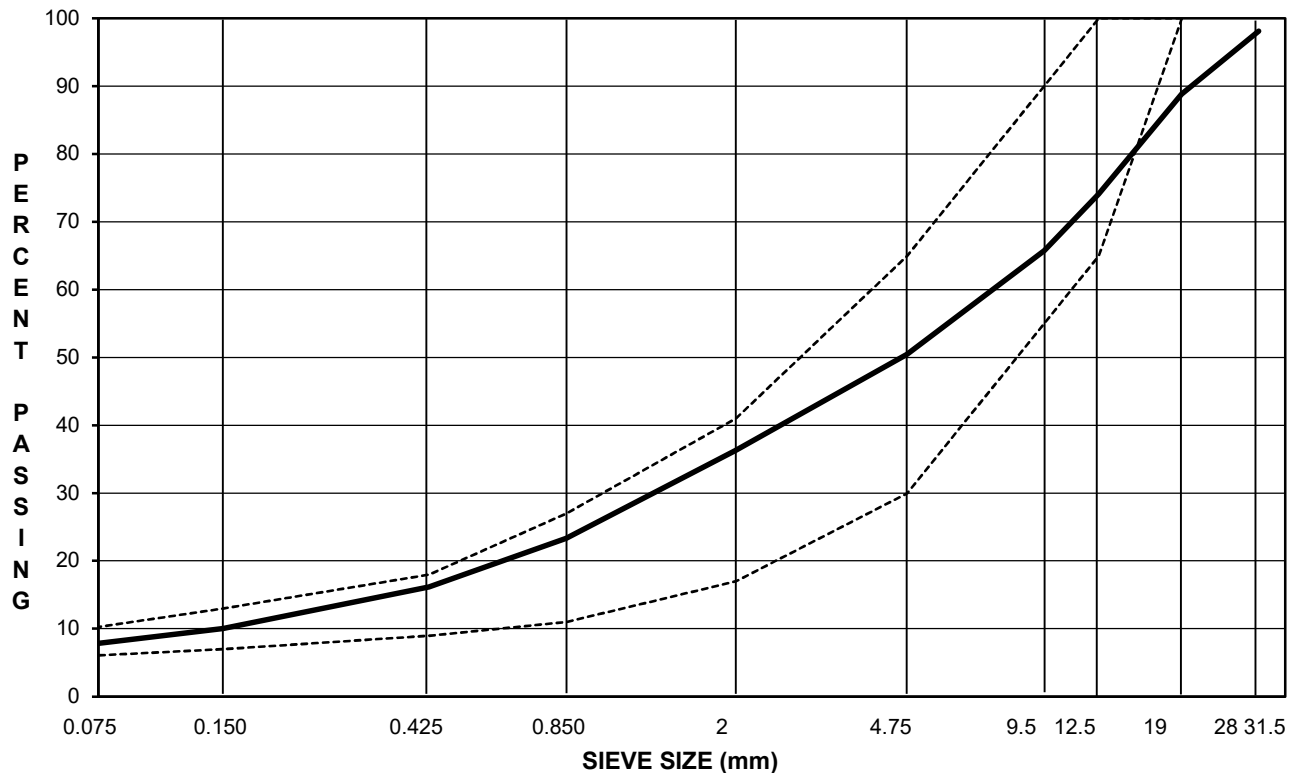
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-11-AMQ-FFAB-20210416
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 16, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>DY</u> Tested By: <u>DY/RO</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2B (FFAB 6%)</u>
Description: <u>Fine Filter Ammended with Bentonite</u>	Fracture (2 faces): <u></u>
Location: <u>Hinge Overliner Station 0+198</u>	Moisture Content: <u>3.1%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	150000	100000	56000	31500	28000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result					98	89	74	66	50	36	23	16	10	8

Remarks: No wash. Zone 2A specification band.

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136 & C117

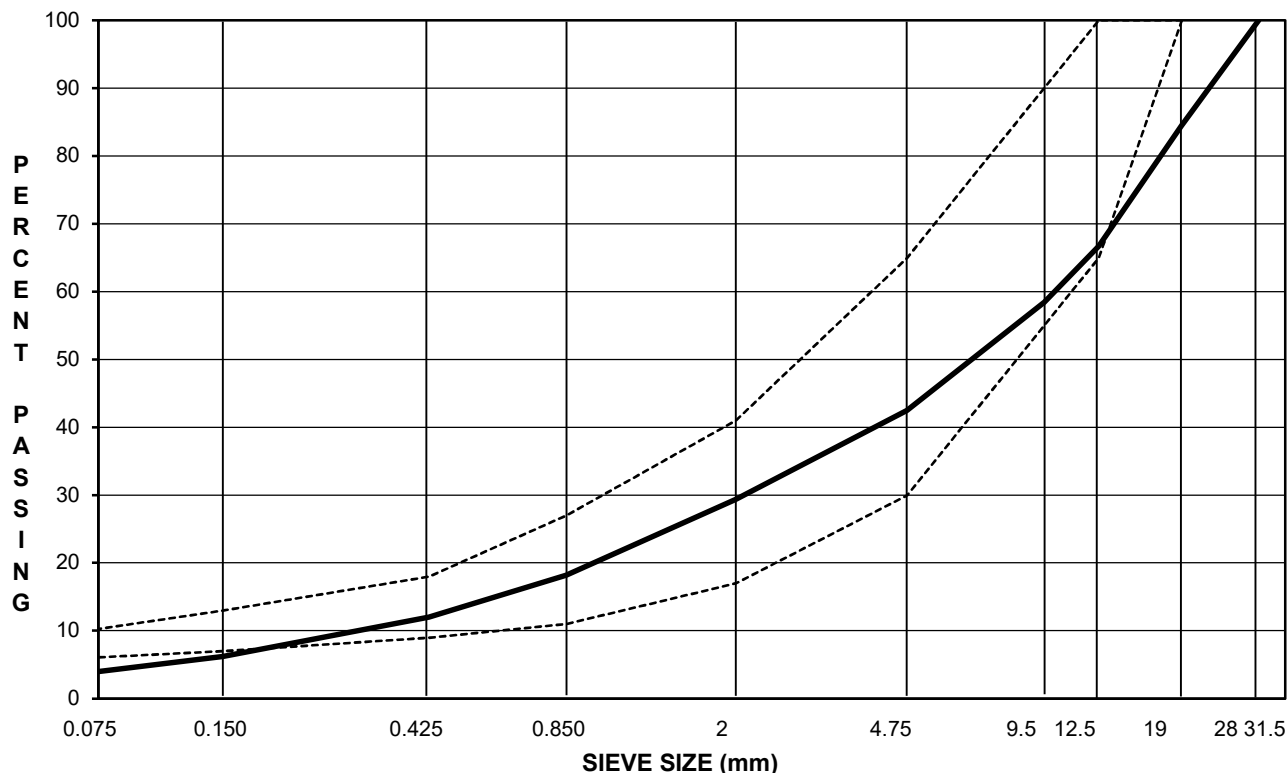
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-12-AMQ-FFAB-20210422
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 22, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>RO</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 2B (FFAB 4%)</u>
Description: <u>Fine Filter Ammended with Bentonite</u>	Fracture (2 faces): <u></u>
Location: <u>Hinge Overliner Station 0+515</u>	Moisture Content: <u>3.4%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	150000	100000	56000	31500	28000	19000	12500	9500	4750	2000	850	425	150	75
Upper Limit						100	100		65	41	27	18	13	10
Lower Limit						100	65		30	17	11	9	7	6
Test Result					100	84	67	58	42	29	18	12	6	4

Remarks: No wash. Zone 2A specification band.

Reviewed By: ISSUED FOR REVIEW P.Eng.

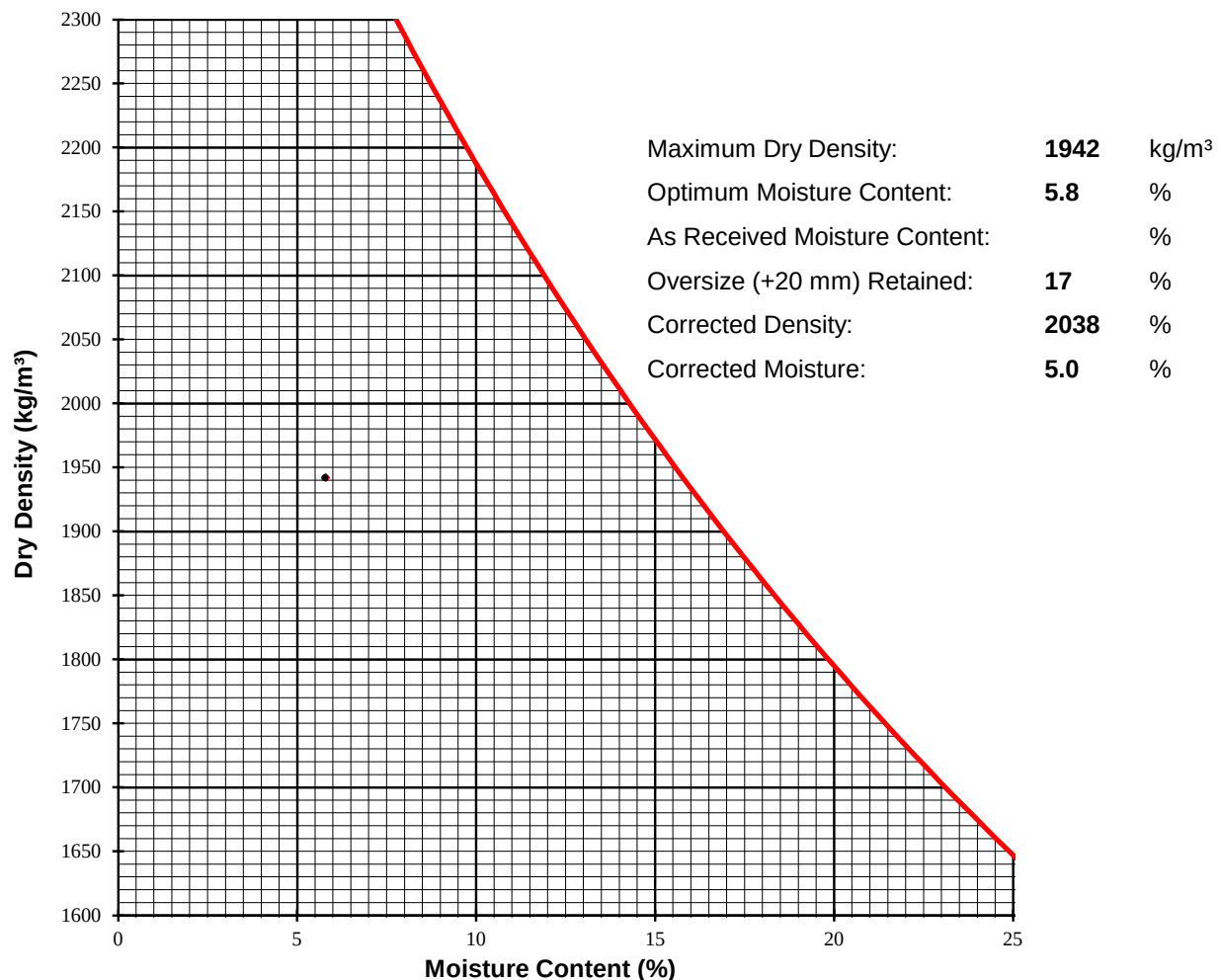


MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT

ASTM D1557 Modified

Project: Amaruq IVR D-1 Dike Q.C.
Client: Agnico Eagle Mines Ltd.
Attention: Jenn Plyicuk
Project No.: 704-ENG.EAR03222-01
Description: Fine Filter Amended with Bentonite
Source: Bentonite Mixing Station

Sample No.: MDR-1-FFAB-2021030
Sampled By: JRC
Sample Date: March 4, 2021
Test Date: March 3, 2021
Preparation: Moist
Compaction: Manual



Remarks: _____

Reviewed By: _____ ASCT

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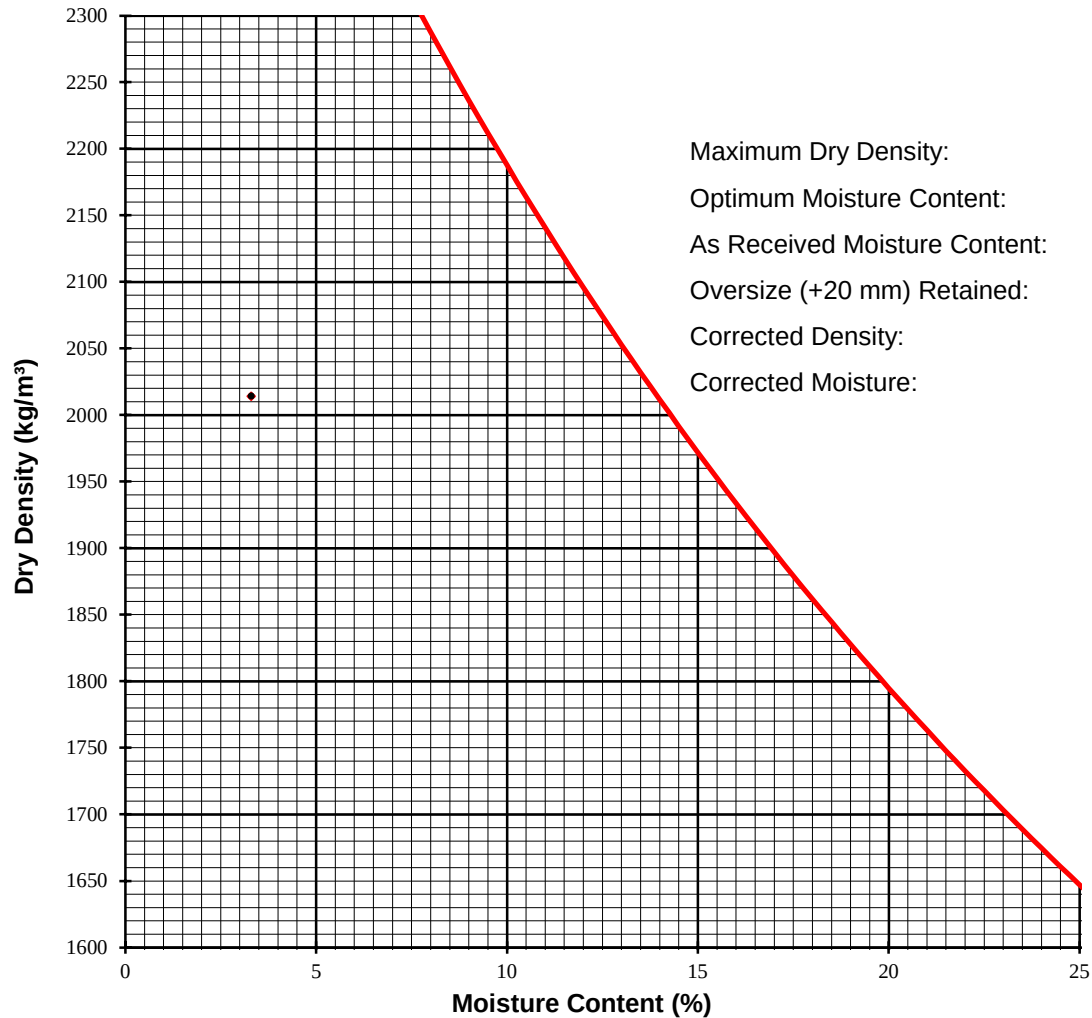


MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT

ASTM D1557 Modified

Project: Amaruq IVR D-1 Dike Q.C.
Client: Agnico Eagle Mines Ltd.
Attention: Jennifer Plyiuk
Project No.: 704-ENG.EAR03222-01
Description: Fine Filter Amended with Bentonite (4% ratio)
Source: Bentonite Mixing Station

Sample No.: MDR-2-FFAB-20210318
Sampled By: RO
Sample Date: March 18, 2021
Test Date: March 18, 2021
Preparation: Moist
Compaction: Manual



Remarks: _____

Reviewed By: ISSUED FOR REVIEW ASCT

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APPENDIX G-2C

**QC Laboratory Results – Zone 3
Coarse Filter Material**

SIEVE ANALYSIS REPORT

ASTM C136

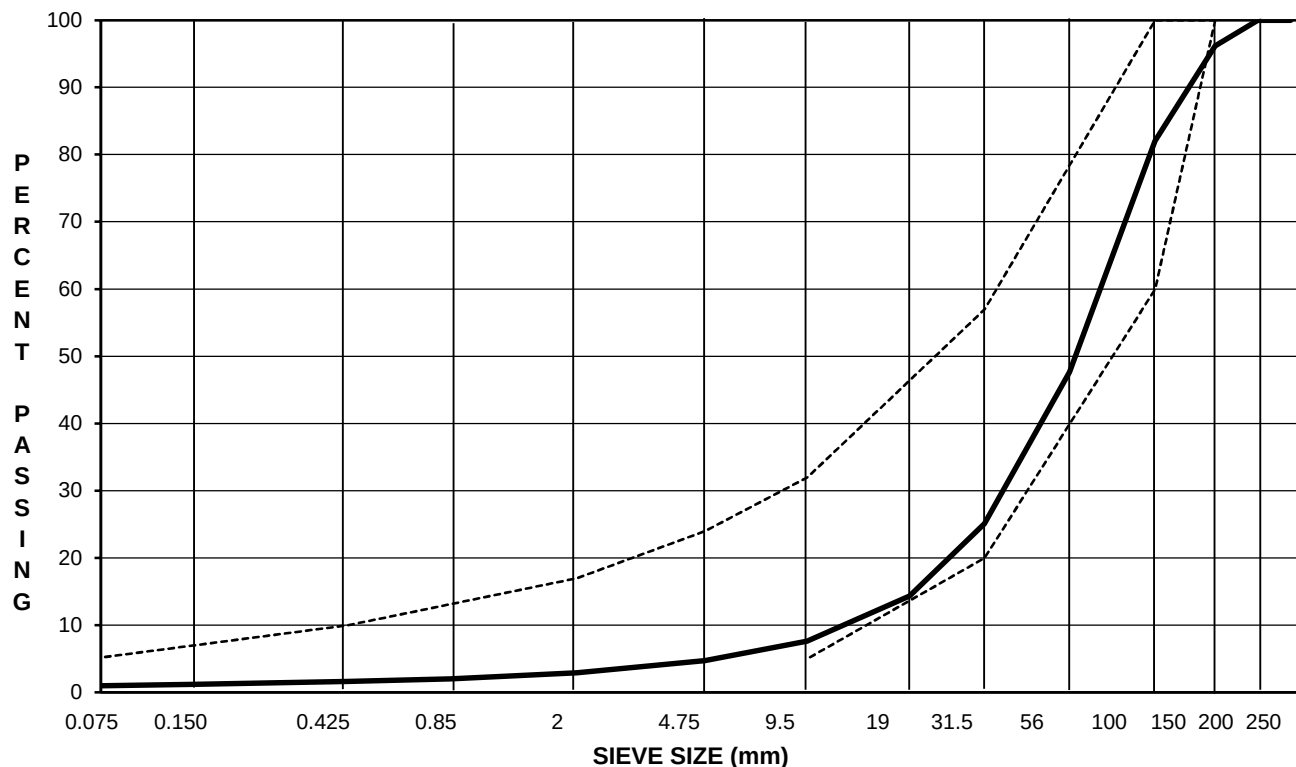
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: <u>PSD-3-AMQ-CF-20210321</u>
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 21, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>DY</u> Tested By: <u>RO/DY</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 3</u>
Description: <u>Coarse Filter (150 mm Minus)</u>	Date Tested: <u>March 21-22, 2021</u>
Location: <u>Sta. 0+250, 0.0-0.3 m below OG</u>	Moisture Content: <u>3.9%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit			100	100		57		32	24	17		10		5
Lower Limit			100	60		20		5	0	0		0		0
Test Result	100	100	96	82	48	25	14	8	5	3	2	2	1	1

Remarks: _____

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136

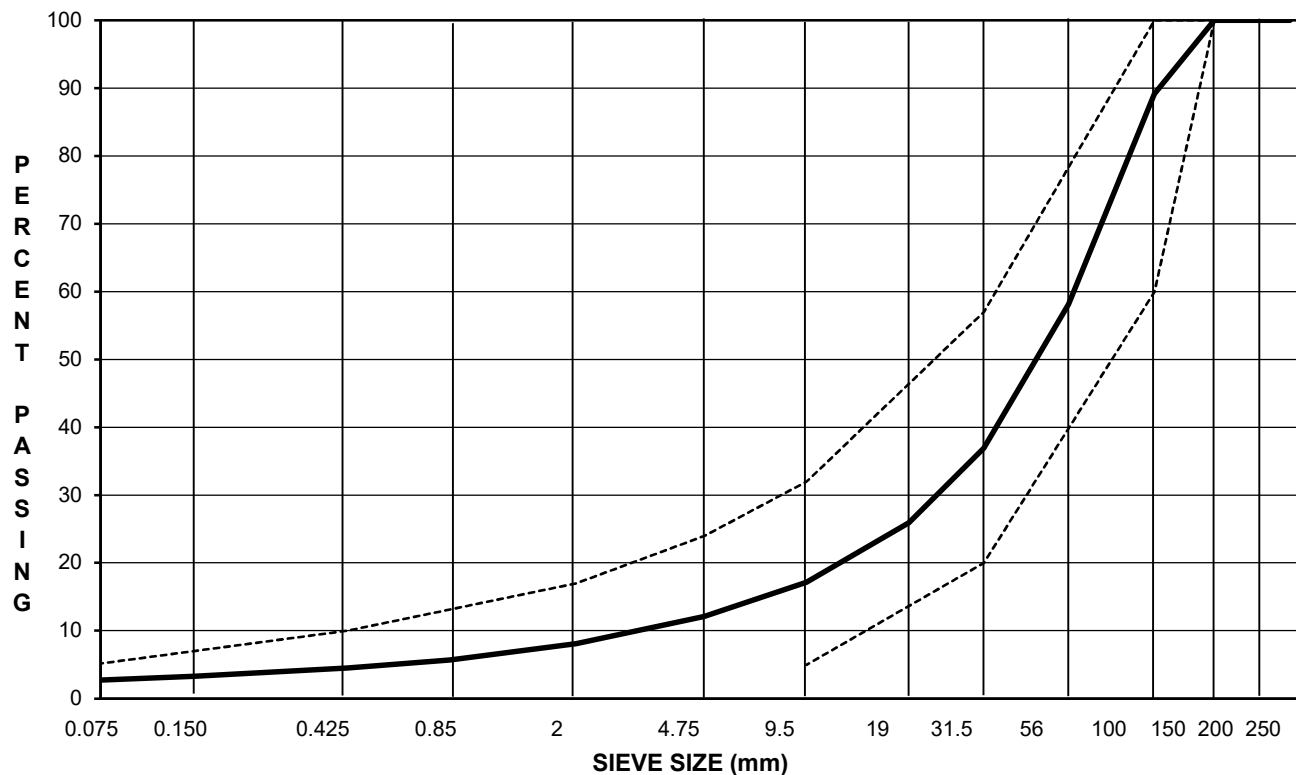
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-4-AMQ-CF-20210327
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>March 27, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>RO/DY</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 3</u>
Description: <u>Coarse Filter (150 mm Minus)</u>	Date Tested: <u>March 27, 2021</u>
Location: <u>Sta. 0+370, Cut-off trench backfill</u>	Moisture Content: <u>7.0%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit			100	100		57		32	24	17		10		5
Lower Limit			100	60		20		5	0	0		0		0
Test Result	100	100	100	89	58	37	26	17	12	8	6	4	3	3

Remarks: _____

Reviewed By: **ISSUED FOR REVIEW** P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136

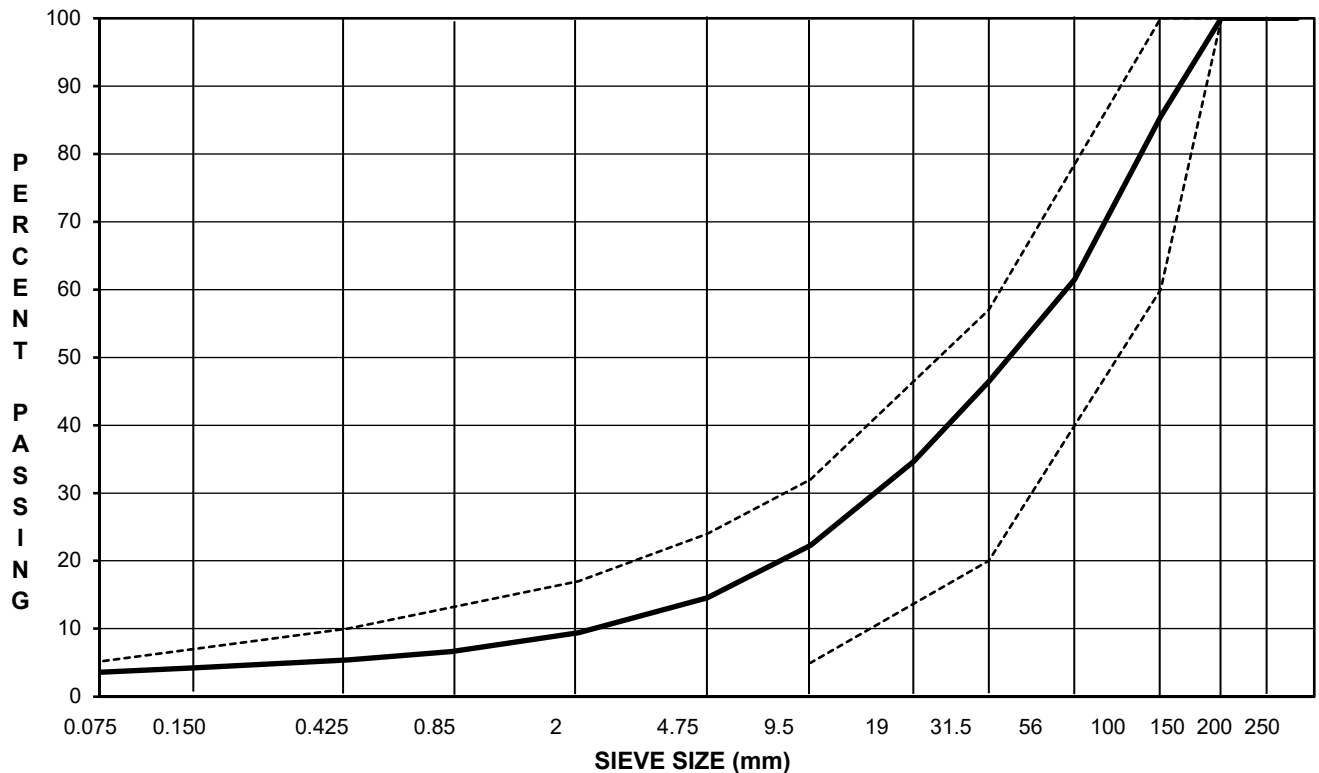
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-5-AMQ-CF-20210402
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 2, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>CP</u> Tested By: <u>CP/JC</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 3</u>
Description: <u>Coarse Filter (150 mm Minus)</u>	Date Tested: <u>April 3, 2021</u>
Location: <u>Sta. 0+120, Cut-off trench backfill</u>	Moisture Content: <u>3.9%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit			100	100		57		32	24	17		10		5
Lower Limit			100	60		20		5	0	0		0		0
Test Result	100	100	100	85	61	46	35	22	15	9	7	5	4	4

Remarks: 3000 m³ of Zone 3 material placed

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136

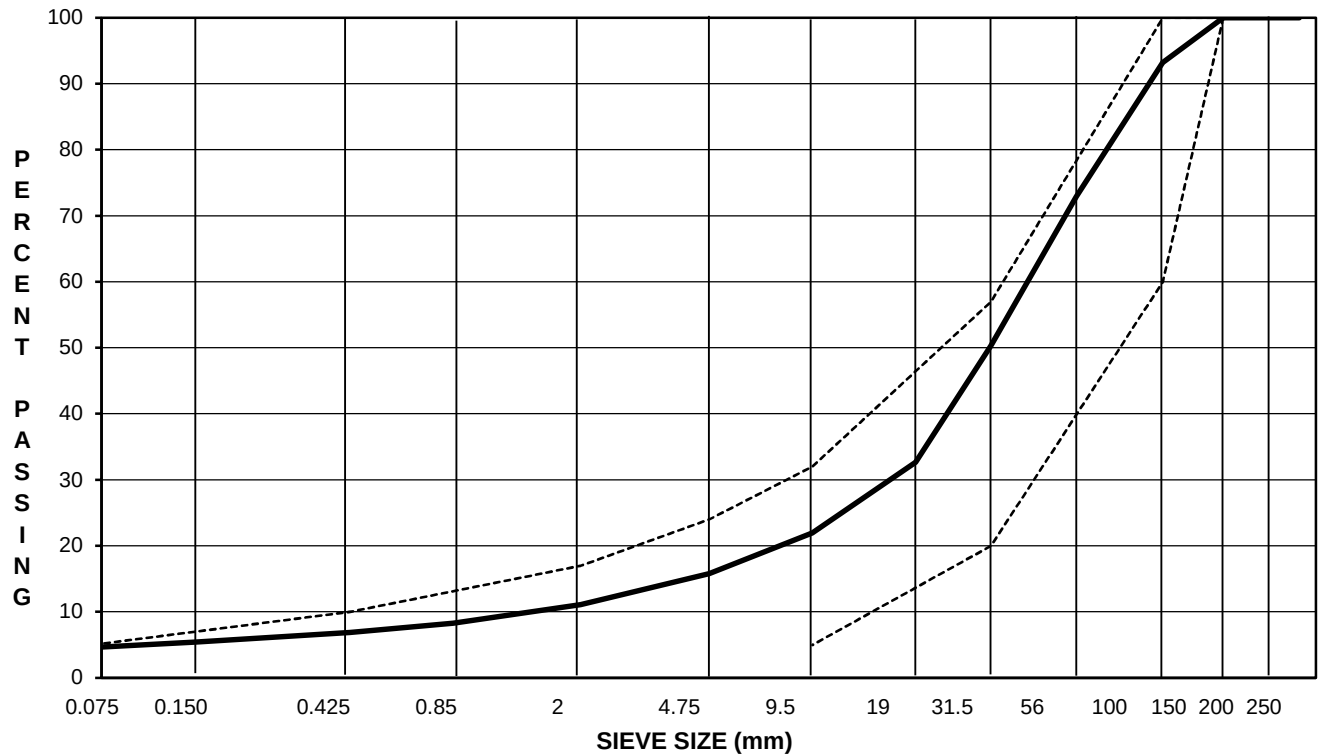
Project:	Amaruq IVR D-1 Dike Q.C.	Sample Number:	PSD-6-AMQ-CF-20210405
Project No.:	ENG.EARC03222-01	Date Sampled:	April 4, 2021
Client:	Agnico Eagle Mines Ltd.	Sampled By:	CP Tested By: CP/JC
Attention:	Jennifer Pyluk	Specification:	Zone 3
Description:	Coarse Filter (150 mm Minus)	Date Tested:	April 5, 2021
Location:	Sta. 0+313, slope	Moisture Content:	6.2%

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit			100	100		57		32	24	17		10		5
Lower Limit			100	60		20		5	0	0		0		0
Test Result	100	100	100	93	73	50	33	22	16	11	8	7	5	5

Remarks: 3000 m³ of Zone 3 material placed

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136

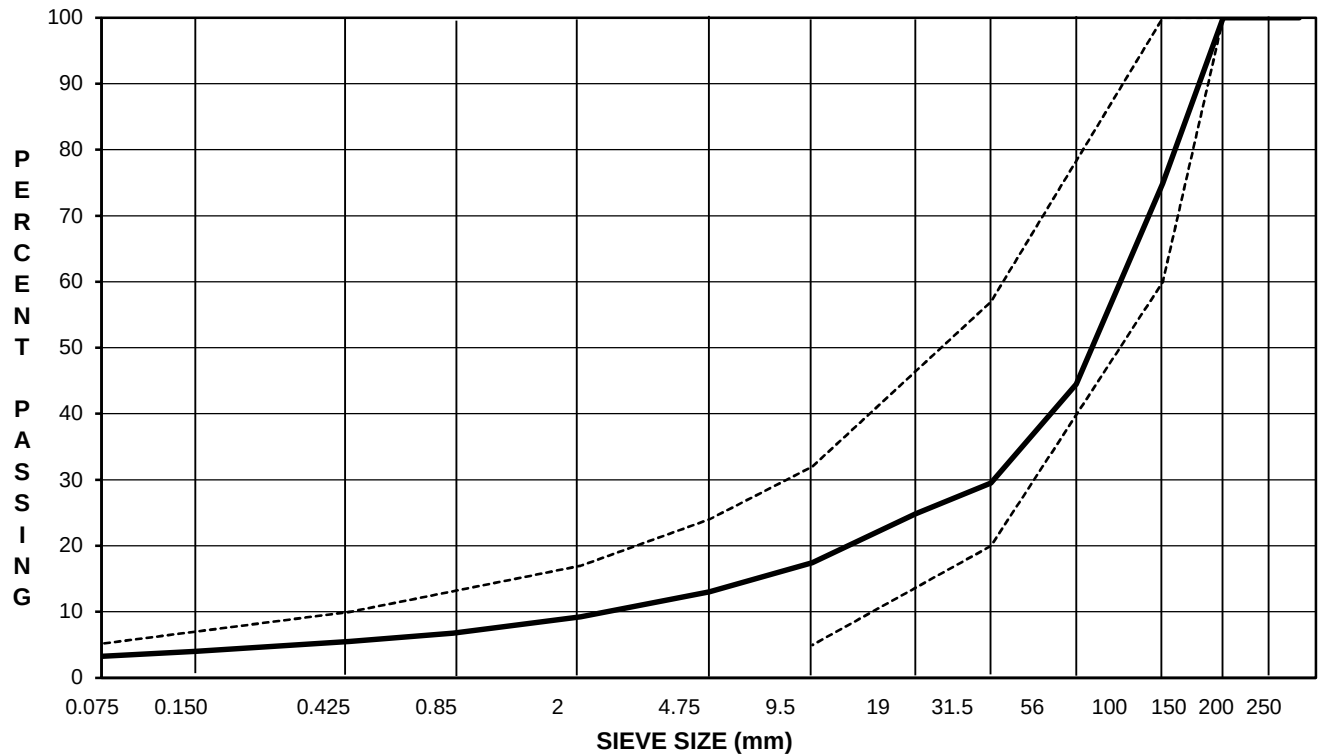
Project:	Amaruq IVR D-1 Dike Q.C.	Sample Number:	PSD-7-AMQ-CF-20210409
Project No.:	ENG.EARC03222-01	Date Sampled:	April 9, 2021
Client:	Agnico Eagle Mines Ltd.	Sampled By:	CP Tested By: CP/JC
Attention:	Jennifer Pyluk	Specification:	Zone 3
Description:	Coarse Filter (150 mm Minus)	Date Tested:	April 10, 2021
Location:	Sta. 0+150, slope	Moisture Content:	8.9%

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit			100	100		57		32	24	17		10		5
Lower Limit			100	60		20		5	0	0		0		0
Test Result	100	100	100	75	44	30	25	17	13	9	7	5	4	3

Remarks: 5000 m³ of Zone 3 material placed

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136

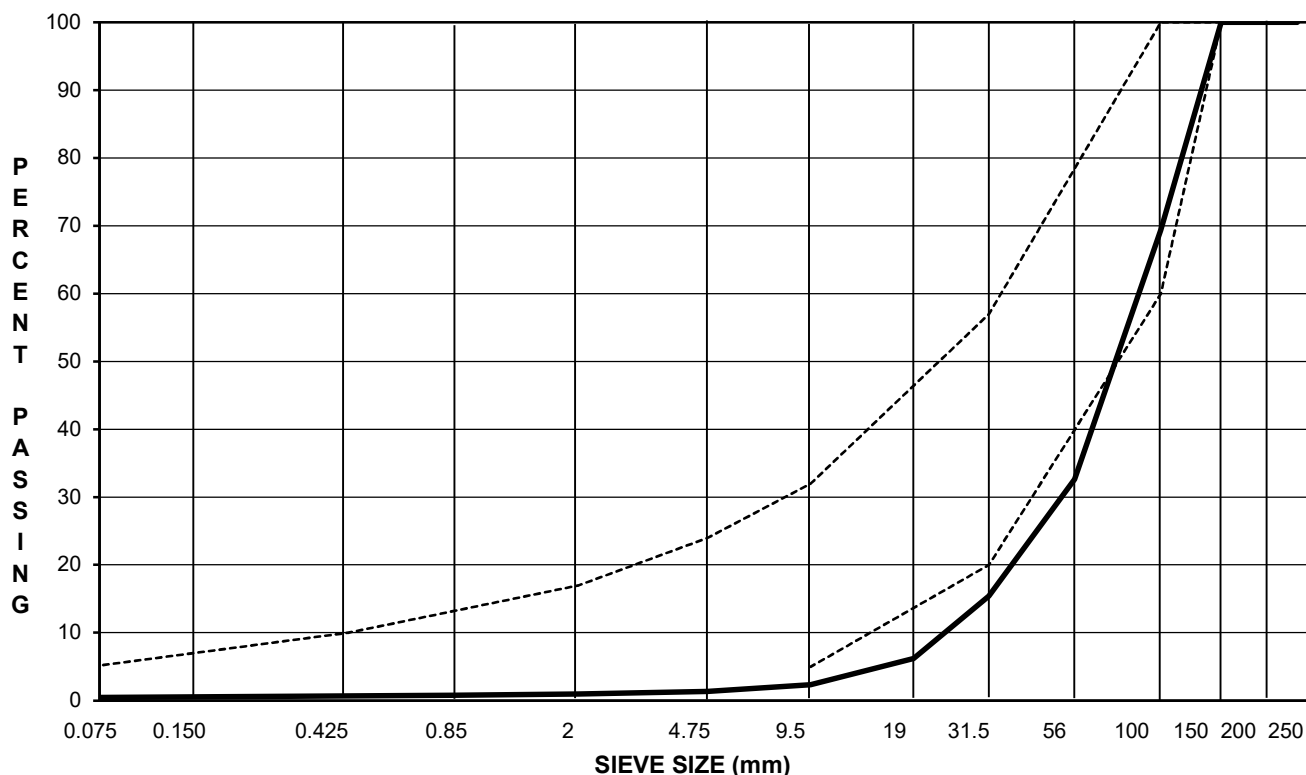
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-8-AMQ-CF-20210415
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 15, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>DY</u> Tested By: <u>DY/RO</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 3</u>
Description: <u>Coarse Filter (150 mm Minus)</u>	Date Tested: <u>April 15, 2021</u>
Location: <u>Sta. 0+440, D/S underliner slope</u>	Moisture Content: <u>3.0%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit			100	100		57		32	24	17		10		5
Lower Limit			100	60		20		5	0	0		0		0
Test Result	100	100	100	69	33	15	6	2	1	1	1	1	1	0

Remarks: Moisture content of 31.5 mm minus
fraction only.

Reviewed By: **ISSUED FOR REVIEW** P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136

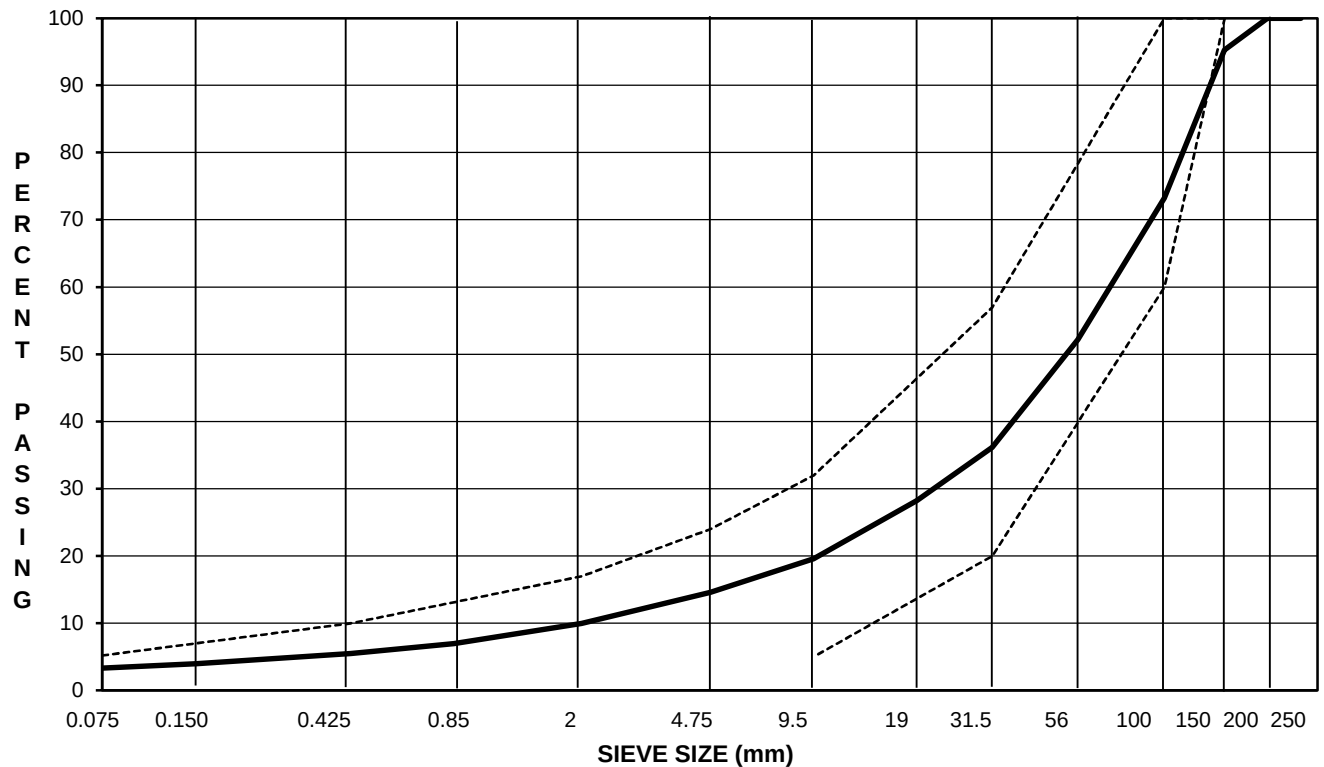
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: <u>PSD-9-AMQ-CF-20210416</u>
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 15, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>DY/RO</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 3</u>
Description: <u>Coarse Filter (150 mm Minus)</u>	Date Tested: <u>April 17-18, 2021</u>
Location: <u>Sta. 0+505, key trench backfill</u>	Moisture Content: <u>7.4%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit			100	100		57		32	24	17		10		5
Lower Limit			100	60		20		5	0	0		0		0
Test Result	100	100	95	73	52	36	28	20	15	10	7	5	4	3

Remarks: Moisture content of 31.5 mm minus
fraction only.

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136

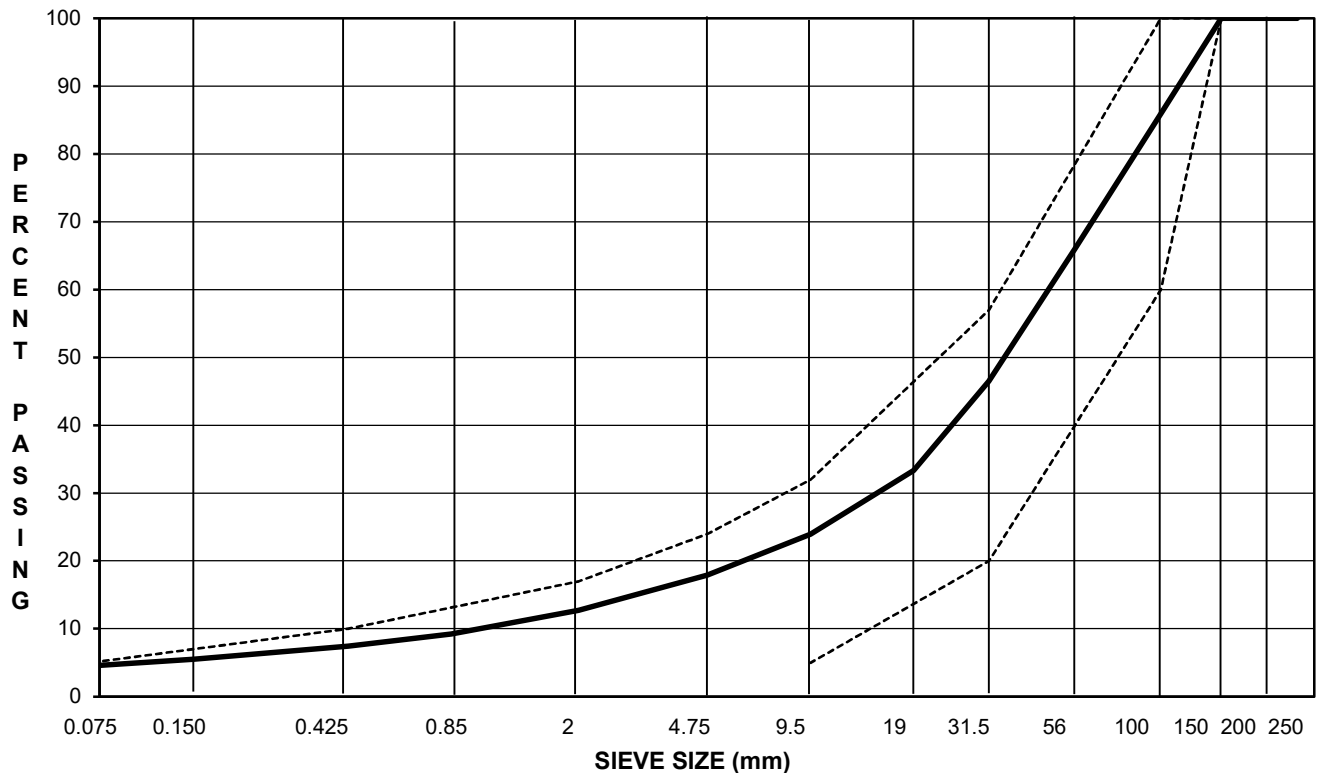
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-10-AMQ-CF-20210424
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 24, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>RO</u>
Attention: <u>Jennifer Pyluk</u>	Specification: <u>Zone 3</u>
Description: <u>Coarse Filter (150 mm Minus)</u>	Date Tested: <u>April 24, 2021</u>
Location: <u>Sta. 0+060, Overliner</u>	Moisture Content: <u>6.8%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit			100	100		57		32	24	17		10		5
Lower Limit			100	60		20		5	0	0		0		0
Test Result	100	100	100	86	66	47	33	24	18	13	9	7	6	5

Remarks: Moisture content of 31.5 mm minus
fraction only.

Reviewed By: **ISSUED FOR REVIEW** P.Eng.



APPENDIX G-2D

**QC Laboratory Results – Zone 4
Esker Material**

SIEVE ANALYSIS REPORT

ASTM C136

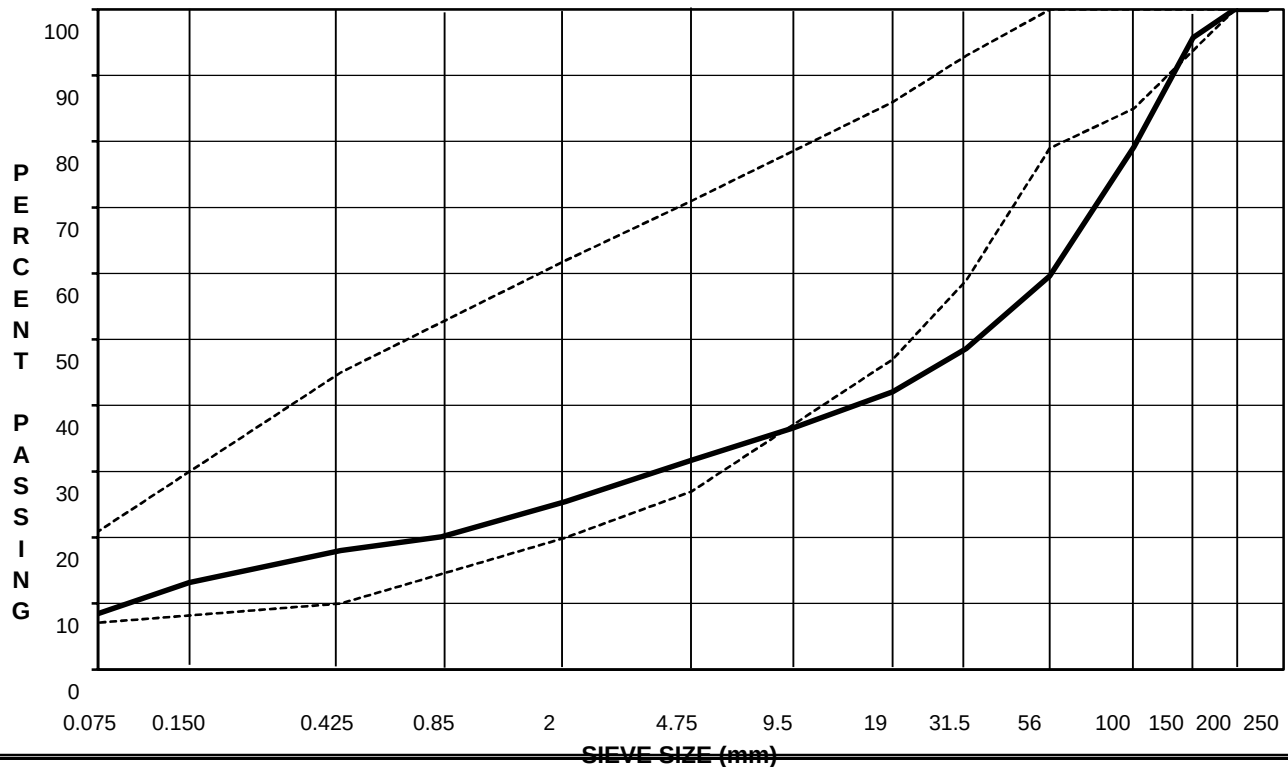
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: <u>PSD-3-AMQ-Esker-20210413</u>
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 13, 2021 (NS)</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>JRC</u> Tested By: <u>JRC</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 4</u>
Description: <u>Esker (200 mm Minus)</u>	Date Tested: <u>April 14, 2021</u>
Location: <u>"West" Esker stockpile, six locations</u>	Moisture Content: <u>10.4%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit		100		100	100	93	86		71	62		45		20
Lower Limit		100		85	79	59	47		27	20		10		7
Test Result	100	100	96	79	60	49	42	37	32	25	20	18	13	8

Remarks: Some oversize observed in pile. Small frozen chunks present.

Reviewed By: ISSUED FOR REVIEW
P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136

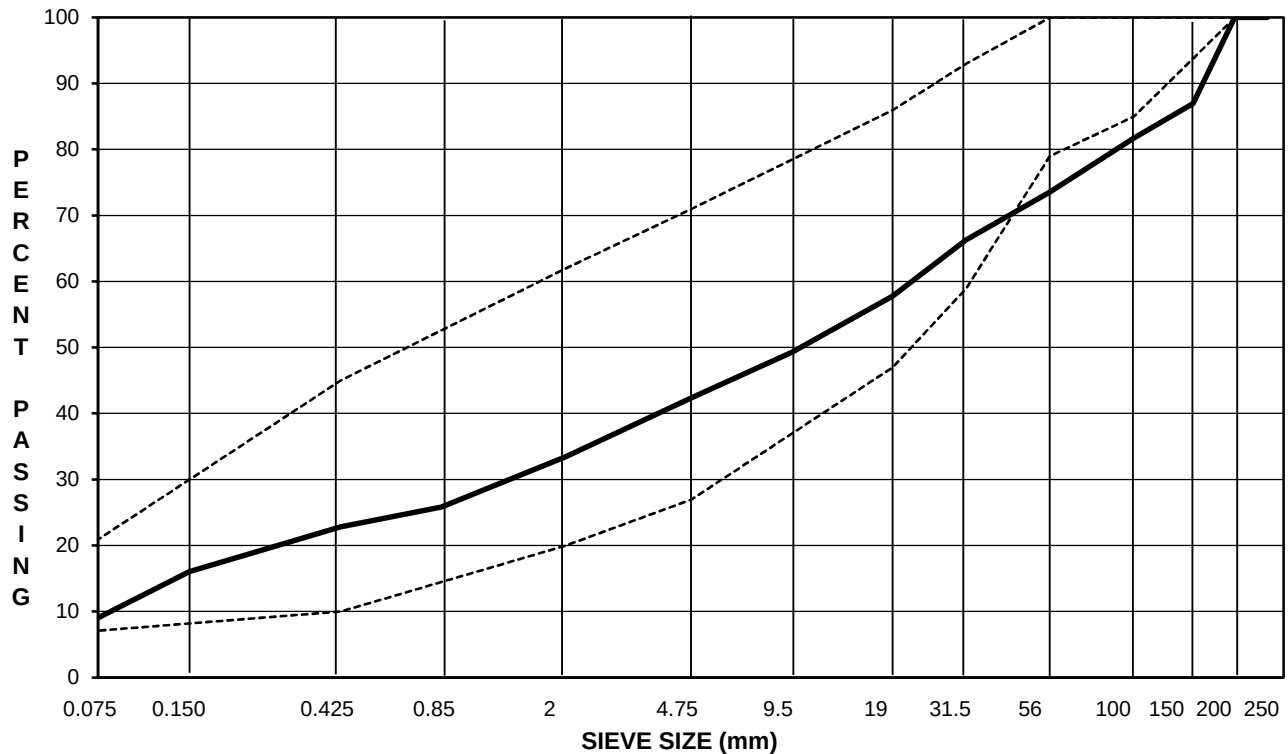
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: <u>PSD-4-AMQ-Esker-20210413</u>
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 13, 2021 @ 21:30</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>JRC</u> Tested By: <u>JRC</u>
Attention: <u>Jennifer Pyluk</u>	Specification: <u>Zone 4</u>
Description: <u>Esker (200 mm Minus)</u>	Date Tested: <u>April 14, 2021</u>
Location: <u>"Northwest" Esker stockpile, six locations</u>	Moisture Content: <u>10.1%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit		100		100	100	93	86		71	62		45		20
Lower Limit		100		85	79	59	47		27	20		10		7
Test Result	100	100	87	82	74	66	58	49	42	33	26	23	16	8

Remarks: Some oversize observed in pile. Small frozen chunks present.

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136

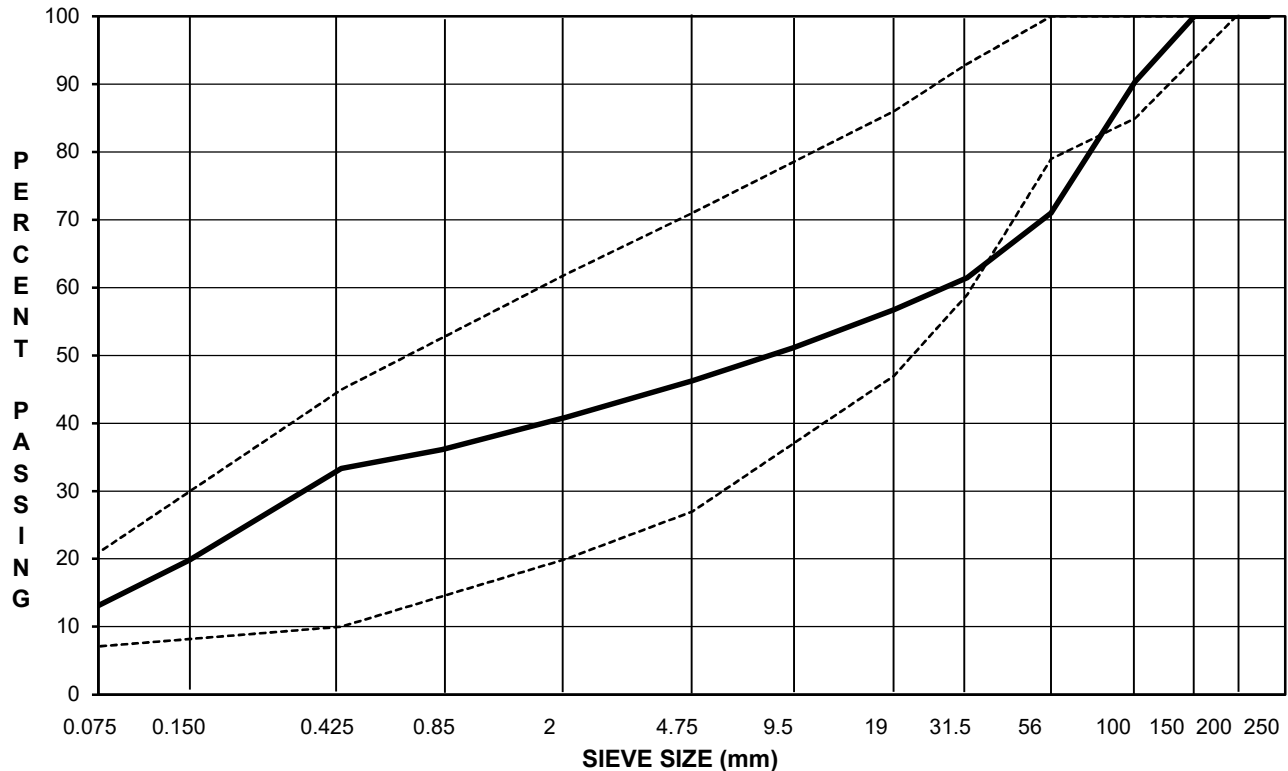
Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: <u>PSD-5-AMQ-Esker-20210417</u>
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 17, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>DY</u> Tested By: <u>DY/RO</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 4</u>
Description: <u>Esker (200 mm Minus)</u>	Date Tested: <u>April 18, 2021</u>
Location: <u>Station 0+194 Esker Zone</u>	Moisture Content: <u>9.4%</u>

Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit		100		100	100	93	86		71	62		45		20
Lower Limit		100		85	79	59	47		27	20		10		7
Test Result	100	100	100	90	71	61	57	51	46	41	36	33	20	12

Remarks: 2:1 mix ratio of east stockpile to west
stockpile. Moisture content of 19 mm minus fraction

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136

Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: <u>PSD-6-AMQ-Esker-20210421</u>
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 21, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>RO</u> Tested By: <u>DY/RO</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 4</u>
Description: <u>Esker (200 mm Minus)</u>	Date Tested: <u>April 21, 2021</u>
Location: <u>Station 0+135 Esker Zone, lift #1</u>	Moisture Content: <u>10.2%</u>

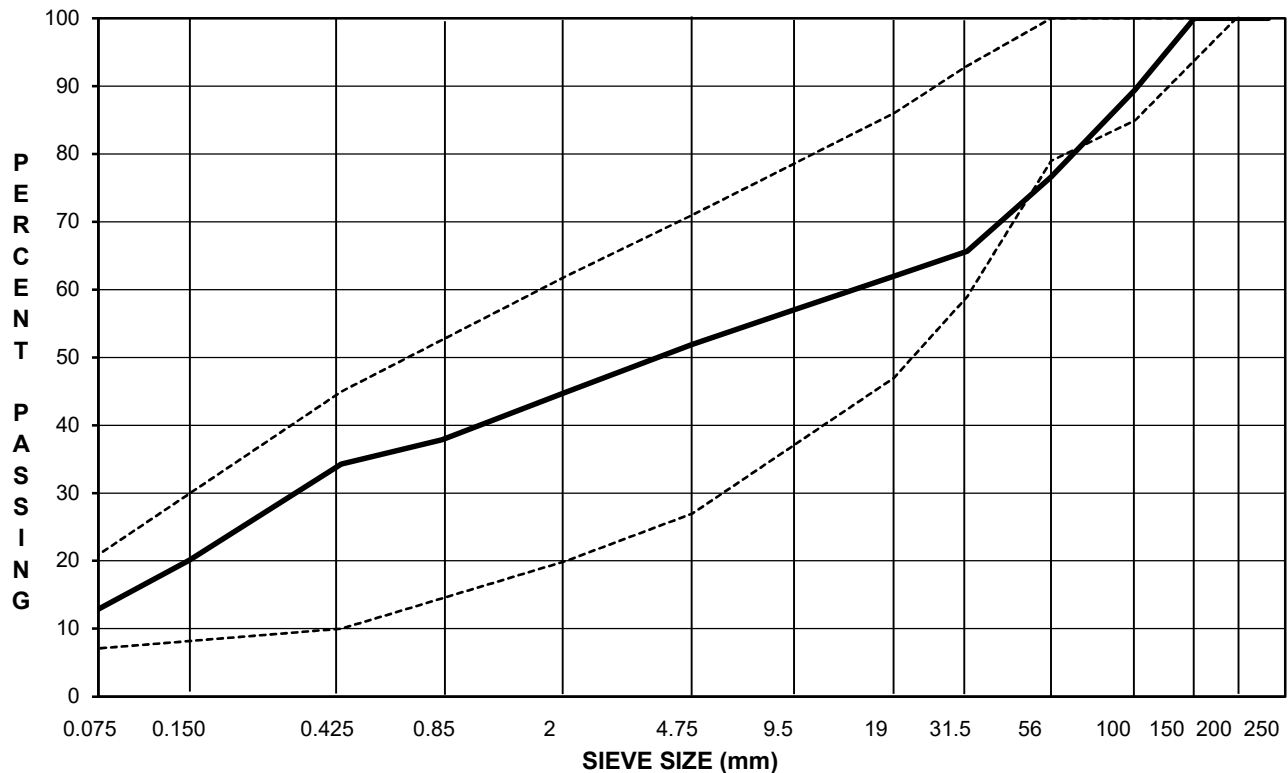
Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit		100		100	100	93	86		71	62		45		20
Lower Limit		100		85	79	59	47		27	20		10		7
Test Result	100	100	100	89	77	66	62	57	52	45	38	34	20	12

Remarks: 2:1 mix ratio of east and west stockpiles.

Moisture content of 19 mm minus fraction only.

Reviewed By: ISSUED FOR REVIEW P.Eng.



SIEVE ANALYSIS REPORT

ASTM C136

Project: <u>Amaruq IVR D-1 Dike Q.C.</u>	Sample Number: PSD-7-AMQ-Esker-20210423
Project No.: <u>ENG.EARC03222-01</u>	Date Sampled: <u>April 23, 2021</u>
Client: <u>Agnico Eagle Mines Ltd.</u>	Sampled By: <u>DY</u> Tested By: <u>RO</u>
Attention: <u>Jennifer Pyliuk</u>	Specification: <u>Zone 4</u>
Description: <u>Esker (200 mm Minus)</u>	Date Tested: <u>April 24, 2021</u>
Location: <u>Station 0+110 Esker Zone, lift #1</u>	Moisture Content: <u>10.6%</u>

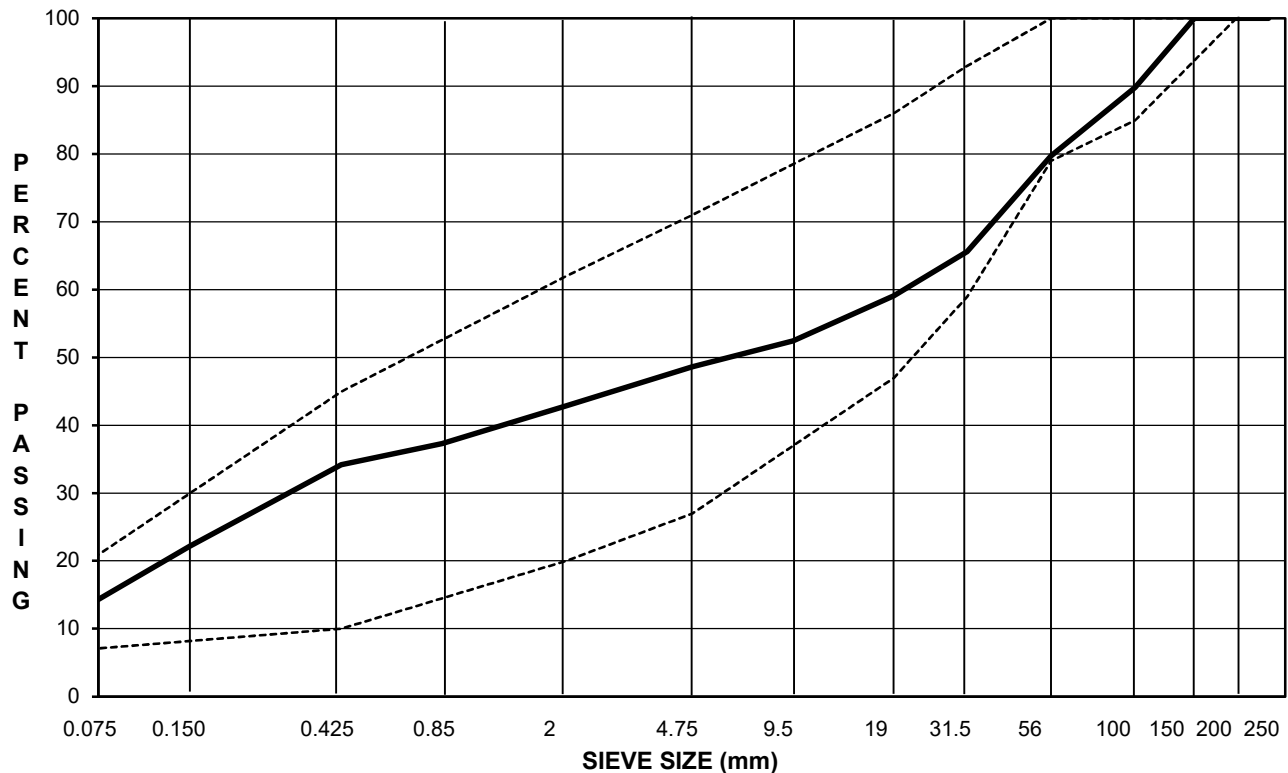
Aggregate Gradation (% Passing)

Sieve Size (um)	250000	200000	150000	100000	56000	31500	19000	9500	4750	2000	850	425	150	75
Upper Limit		100		100	100	93	86		71	62		45		20
Lower Limit		100		85	79	59	47		27	20		10		7
Test Result	100	100	100	90	80	66	59	52	49	43	37	34	22	14

Remarks: 2:1 mix ratio of east and west stockpiles.

Moisture content of 19 mm minus fraction only.

Reviewed By: ISSUED FOR REVIEW P.Eng.

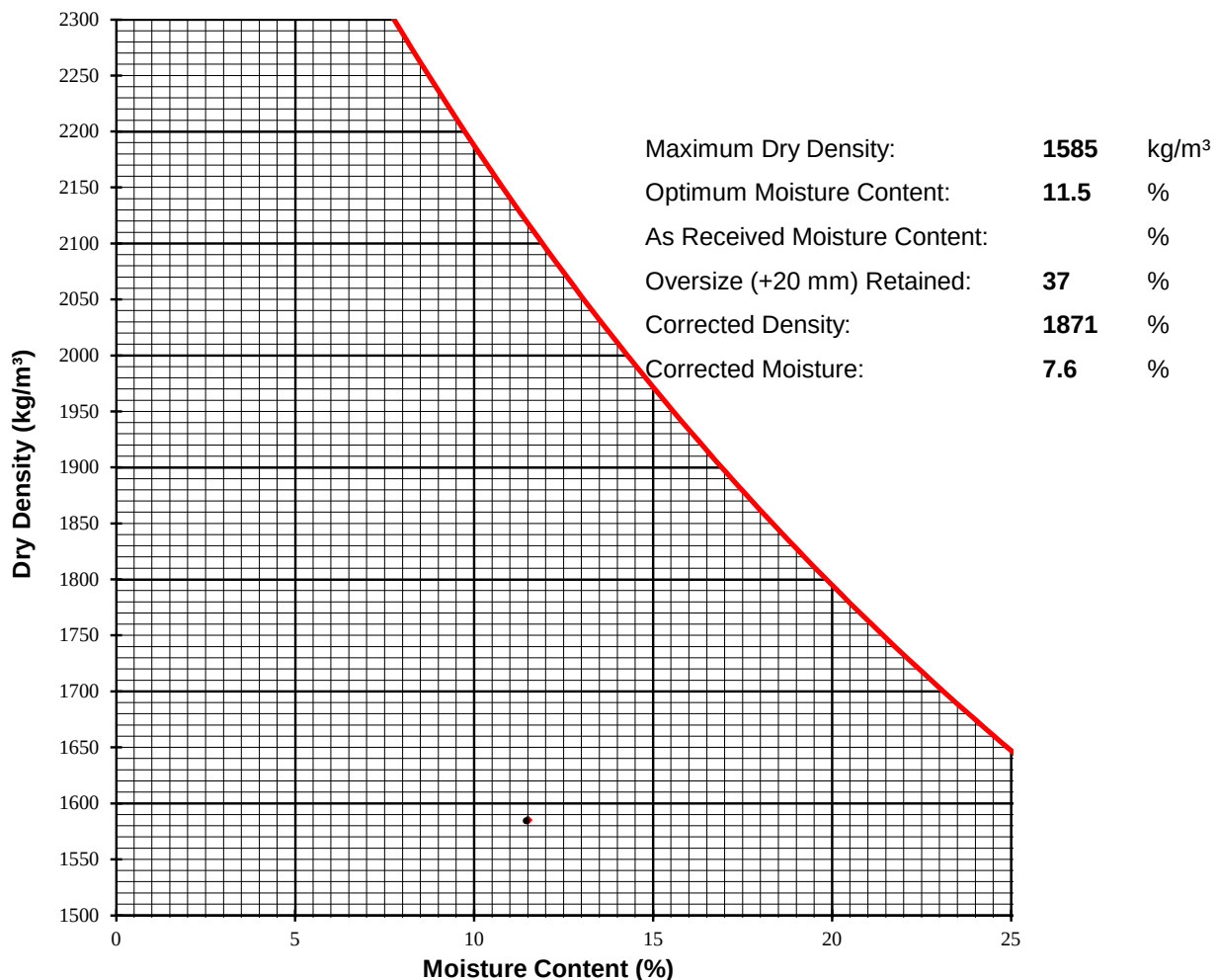


MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT

ASTM D1557 Modified

Project: Amaruq IVR D-1 Dike Q.C.
Client: Agnico Eagle Mines Ltd.
Attention: Jenn Plyicuk
Project No.: 704-ENG.EAR03222-01
Description: Esker (200 mm Minus)
Source: West Esker Stockpile

Sample No.: MDR-1-Esker-2021030
Sampled By: DY
Sample Date: March 1, 2021
Test Date: March 1, 2021
Preparation: Moist
Compaction: Manual



Remarks: Proctor completed in frozen conditions. Material frozen during test.

Reviewed By: _____ ASCT

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MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT

ASTM D1557 Modified

Project: Amaruq IVR D-1 Dike Q.C.

Client: Agnico Eagle Mines Ltd.

Attention: Jenn Plyicuk

Project No.: 704-ENG.EAR03222-01

Description: Esker (200 mm Minus)

Source: West Esker Stockpile

Sample No.: MDR-2-Esker-2021030

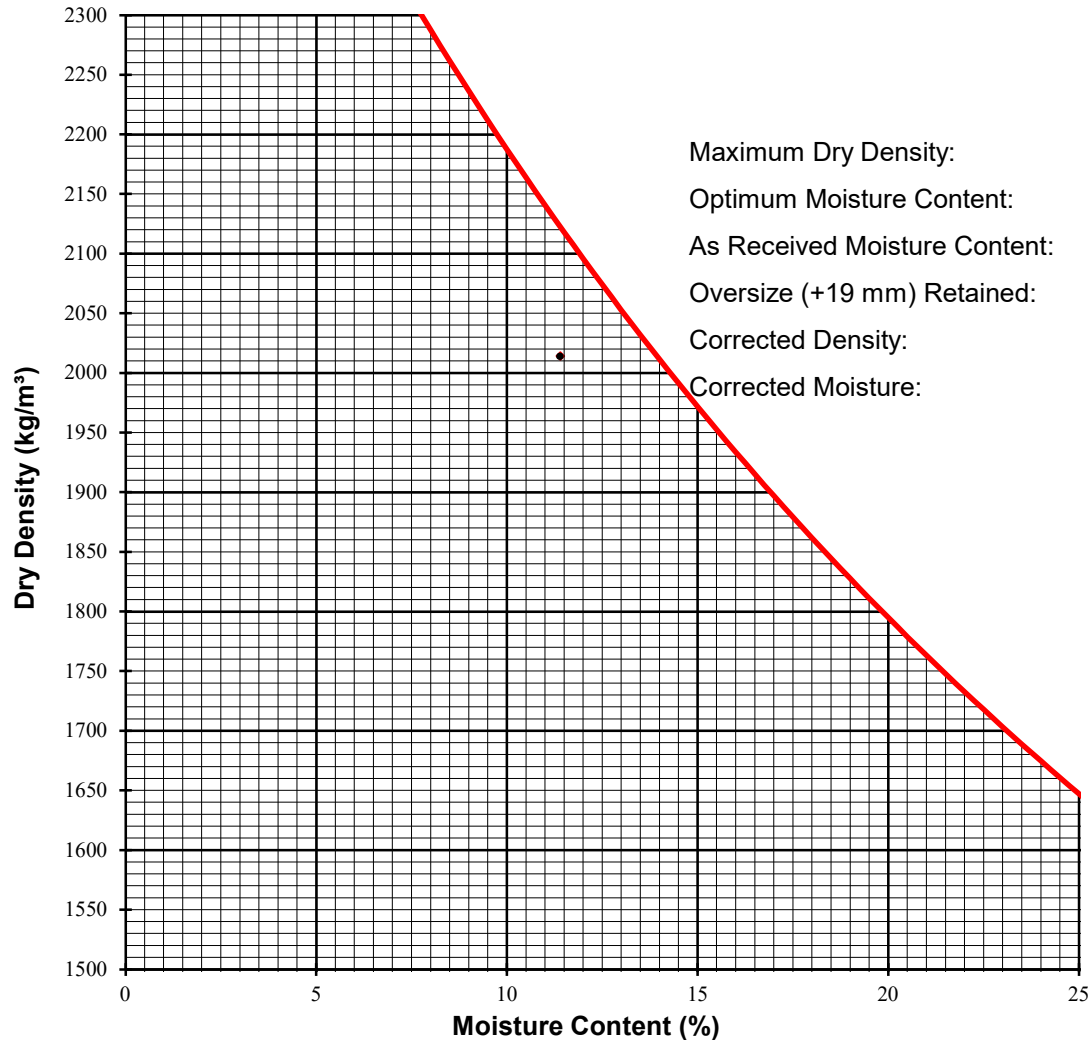
Sampled By: JRC

Sample Date: March 1, 2021

Test Date: March 5, 2021

Preparation: Moist

Compaction: Manual



Remarks: Single point proctor, unfrozen conditions.

Reviewed By: _____ ASCT

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MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT

ASTM D1557 Modified

Project: Amaruq IVR D-1 Dike Q.C.

Client: Agnico Eagle Mines Ltd.

Attention: Jenn Plyicuk

Project No.: 704-ENG.EAR03222-01

Description: Esker (200 mm Minus)

Source: 2:1 mix ratio of east and west stockpiles

Sample No.: MDR-3-Esker-2021041

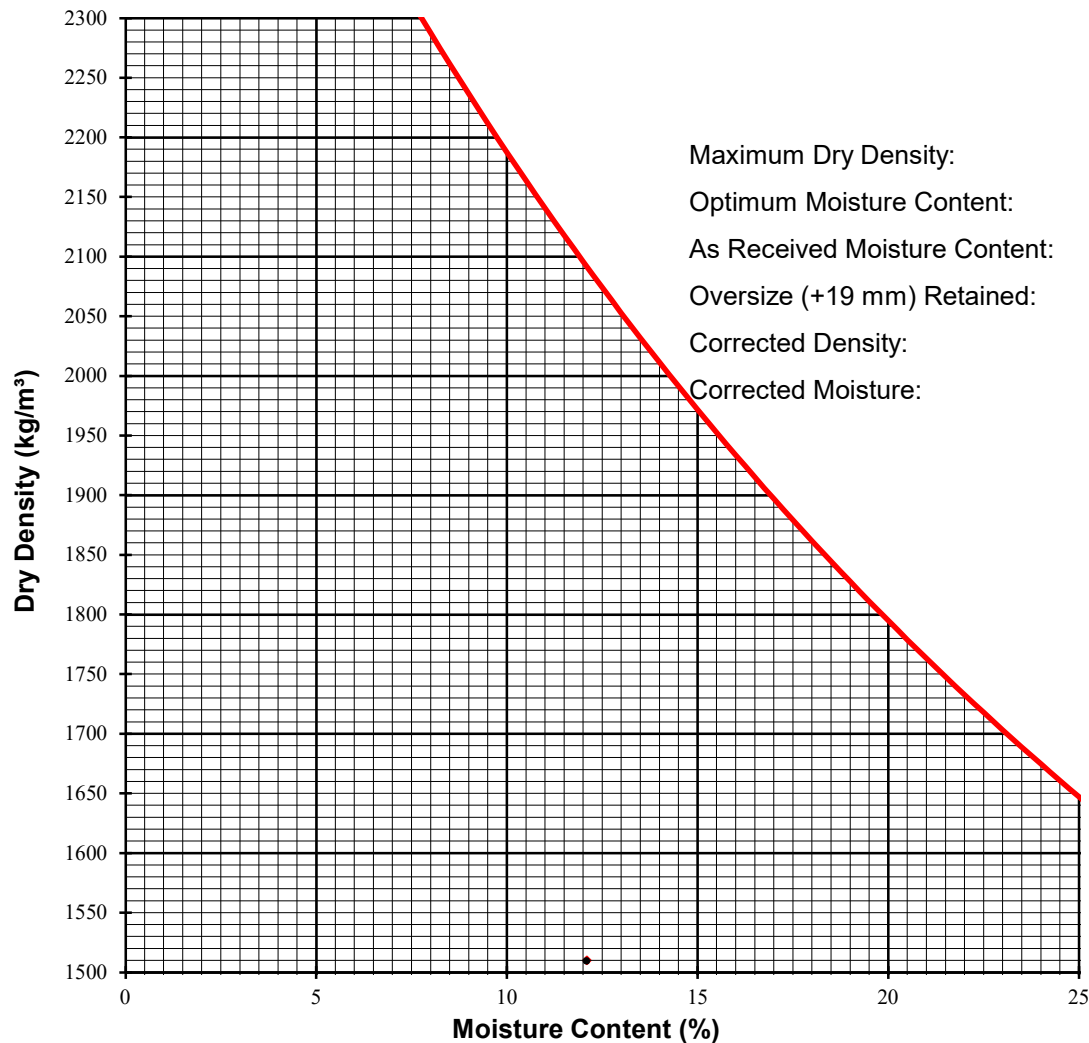
Sampled By: DY

Sample Date: April 17, 2021

Test Date: April 18, 2021

Preparation: Moist

Compaction: Manual



Remarks: Single point proctor, frozen conditions.

Reviewed By: _____ ASCT

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APPENDIX G-3

IVR Dike QC Field Results

APPENDIX G-3A

QC Field Results – Zone 2A
Fine Filter Material

COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -40 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** March 10, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** March 10, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 1995 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+147; depth of 1.9 m from surface N: 7255516.15; E: 607903.68	160.4	2171	3.5	2098	105.2
2	150	Station 0+160; depth of 1.9 m from surface N: 725551.03; E: 607912.90	160.2	2247	3.4	2173	108.9
3	150	Station 0+181; depth of 2.2 m from surface N: 7255498.78; E: 607932.15	159.9	2250	4.2	2159	108.2
4	200	Station 0+150; depth of 1.6 m from surface N: 7255514.61; E: 607905.95	160.7	2276	4.0	2188	109.7
5	150	Station 0+160; depth of 1.6 m from surface N: 7255512.63; E: 607910.72	160.6	2262	3.7	2181	109.3
			Average =	2241	3.8	2160	108.3
				DS =	1982	MS =	577

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+130 to 0+165 at depth of 1.9 m and 1.6 m below surface. Testing from station 0+165 to 0+190 at depth of 2.2 m below surface.



ASTM Designation D6938

Soil Description:	Fine Filter (FF) - 19 mm minus			
Material Source:	Zone 2A (FF)	Proctor:	2132	kg/m ³

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+165 to 0+200 at depth of 1.9 m and 1.6 m below surface



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -44 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 10, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** March 10, 2021 Nightshift

Soil Description: Fine Filter amended with bentonite (FFAB) - 19 mm minus

Material Source: Zone 2B (FFAB) **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	100	Station 0+207; 0.5 m o/s North of trench centreline	158.3	2091	4.1	2009	98.6
2	200	Station 0+209; 2.1 m o/s South of trench centreline	158.6	2138	4.5	2046	100.4
3	200	Station 0+211; 1.5 m o/s North of trench centreline	158.9	2122	5.1	2019	99.1
4	200	Station 0+219; 1.36 m o/s North of trench centreline	159.0	2079	3.6	2007	98.5
			Average =	2108	4.3	2020	99.1
				DS =	1985	MS =	580

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+200 to 0+220 at depth of 3.3 m below surface.



ASTM Designation D6938

Soil Description:	Zone 2A (Fine Filter - 19 mm minus)			
Material Source:	Zone 2A Stockpile	Proctor:	2131	kg/m³

[illegible]

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift. Testing from station 0+205 to 0+220 at depth of 3.0 m and 2.75 m below surface.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -46 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** March 11, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** March 11, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+146; depth of 1.3 m from surface 1.5 m o/s North from trench centreline	161.0	2164	3.2	2097	98.4
2	200	Station 0+157; depth of 1.3 m from surface 3.6 m o/s North from trench centreline	160.9	2185	3.6	2109	99.0
3	150	Station 0+170.5; depth of 1.3 m from surface 1.2 m o/s North from trench centreline	160.8	2192	3.5	2118	99.4
4	200	Station 0+140.15; depth of 1.0 m from surface 3.0 m o/s North from trench centreline	161.3	2216	4.0	2131	100.0
5	150	Station 0+166; depth of 1.0 m from surface 1.4 m o/s North from trench centreline	161.1	2167	3.4	2096	98.4
6	200	Station 0+173; depth of 1.0 m from surface 4.3 m o/s North from trench centreline	161.0	2228.7	4.0	2143	100.6
			Average =	2192	3.6	2116	99.3
				DS =	2005	MS =	522

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+135 to 0+180 at depth of 1.3 m and 1.0 m below surface.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -36 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 12, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** March 12, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Station 0+192 to 0+215 Tested: Station 0+203; depth of 2.2 m from O.G. N: 72555480.27; E: 607957.90 Offset from centerline: 1.2 m E	159.94	2189	3.8	2109	99.0
2	200	Station 0+178 to 0+187 Tested: Station 0+182; depth of 1.2 m from O.G. N: 72555498.72; E: 607933.31 Offset from centerline: 2.00 m E	160.65	2259	3.7	2178	102.2
3	200	Station 0+191 to 0+212 Tested: Station 0+207; depth of 1.9 m from O.G. N: 7255485.24; E: 607954.40 Offset from centerline: 2.10 m E	160.19	2269	4.4	2173	102.0
4	200	Station 0+168 to 0+185 Tested: Station 0+173; depth of 0.6 m from O.G. N: 7255503.0; E: 607925.56 Offset from centerline: 1.76 m E	160.94	2235	4.0	2149	100.8
5	200	Station 0+214 to 0+236 Tested: Station 0+224; depth of 2.2 m from O.G. N: 72555476.02; E: 607969.40 Offset from centerline: 2.50 m E	160.16	2274	3.6	2195	103.0
6	200	Station 0+210 to 0+189 Tested: Station 0+205; depth of 1.5 m from O.G. N: 7255487.48; E: 607953.85 Offset from centerline: 3.7 m E	160.50	2204	4.0	2119	99.4
7	200	Station 0+209 to 0+235 Tested: Station 0+229; depth of 1.9 m from O.G. N: 7255472.72; E: 607973.39 Offset from centerline: 2.1 m E	160.55	2247	3.5	2171	101.9
8	200	Station 0+187 to 0+208 Tested: Station 0+201; depth of 1.2 m from O.G. N: 7255489.01; E: 607949.7 Offset from centerline: 1.2 m E	160.83	2254	4.1	2165	101.6
9	150	Station 0+208 to 0+233 Tested: Station 0+221; depth of 1.5 m from O.G. N: 7255476.90; E: 607966.51 Offset from centerline: 1.8 m E	160.80	2222	3.7	2143	100.6
			Average =	2239	3.9	2156	101.2
				DS =	1998	MS =	576

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project:	Amaruq IVR D-1 Dike Q.C.	Test Apparatus:	Troxler	Troxler No:	33362
	Amaruq, NU	Specified Compaction:	98	% Std. Proctor Max. Dry Density	
Project No.:	704-ENG.EARC03222-01	Optimum Moisture (MC):	<i>in situ</i>		
Client:	Agnico Eagle Mines Ltd.	Temperature	Air:	-47 °C	Soil: - °C
Attention:	Jennifer Pyliuk	Date Tested:	March 12, 2021 Nightshift	By:	JRC
Contractor:	KCB	Construction Period:	March 12, 2021 Nightshift		

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source:	Zone 2A Stockpile	Proctor:	2131	kg/m ³
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Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Station 0+160; depth of 0.5 m from surface O/S North from trench centreline	-	2216	3.3	2145	100.7
2	200	Station 0+190; depth of 0.75 m from surface O/S North from trench centreline	-	2169	3.4	2098	98.5
3	150	Station 0+220; depth of 1.0 m from surface O/S North from trench centreline	-	2170	3.7	2093	98.2
			Average =	2185	3.5	2112	99.1
				DS =	2005	MS =	545

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+135 to 0+180 at depth of 0.5 m below surface. Station 0+180 to 0+208 at depth of 0.75 m below surface and station 0+208 to 0+233 1.0 m below surface.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -50 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 13, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** March 13, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Station 0+180 to 0+204 Tested: Station 0+192; depth of 0.6 m from O.G. N: 7255493.80; E: 607943.08 Offset from centerline: 3.0 m E	161.08	2295	3.7	2213	103.8
2	200	Station 0+204 to 0+227 Tested: Station 0+218; depth of 0.9 m from O.G. N: 7255478.27; E: 6079464.04 Offset from centerline: 1.7 m E	161.00	2177	3.0	2114	99.2
3	200	Station 0+180 to 0+204 Tested: Station 0+194; depth of 0.5 m from O.G. N: 7255492.39; E: 607944.7 Offset from centerline: 2.7 m E	161.28	2238	3.0	2173	102.0
4	200	Station 0+204 to 0+227 Tested: Station 0+215; depth of 0.6 m from O.G. N: 7255478.27; E: 6079464.04 Offset from centerline: 3.8 m E	161.30	2212	3.8	2131	100.0
			Average =	2231	3.4	2158	101.3
				DS =	2005	MS =	536

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -50 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 13, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** March 13, 2021 Dayshift

Soil Description: Zone 2B (Fine Filter Ammended with Bentonite)

Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Station 0+241 to 0+260 Tested: Station 0+253; depth of 2.9 m from O.G. N: 7255456.65; E: 607991.57 Offset from centerline: 1.0 m E	159.98	2172	5.6	2057	100.9
2	200	Station 0+260 to 0+275 Tested: Station 0+253; depth of 2.9 m from O.G. N: 725549.31; E: 608005.34 Offset from centerline: 0.87 m E	160.05	2174	4.5	2080	102.1
3	150	Station 0+241 to 0+275 Tested: Station 0+259; depth of 2.7 m from O.G. N: 7255455.90; E: 607995.37 Offset from centerline: 0.5 m E	160.14	2177	4.5	2083	102.2
			Average =	2174	4.9	2073	101.7
				DS =	2005	MS =	536

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -47 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** March 13, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** March 13, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+255; depth of 2.25 m from surface O/S South from trench centreline	-	2209	3.3	2138	100.3
2	200	Station 0+270; depth of 2.25 m from surface O/S North from trench centreline	-	2162	3.4	2091	98.1
3	200	Station 0+265; depth of 2.0 m from surface O/S South from trench centreline	-	2188	4.3	2098	98.5
4	200	Station 0+275; depth of 2.0 m from surface O/S North from trench centreline	-	2214	3.1	2147	100.8
			Average =	2193	3.5	2119	99.4
				DS =	1996	MS =	572

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+240 to 0+280 at depth of 2.25 m below surface. Station 0+240 to 0+280 at depth of 2.0 m below surface. There was no nightshfit surveyor.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -30 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 14, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** March 14, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Station 0+135 to 0+165 Tested: Station 0+145 N: 7255515.88; E: 6079000.90 Offset from centerline: 9.50 m E Re-constructed section will be removed and re-constructed with proper compaction	160.65	1914	6.5	1797	84.3
2	200	Station 0+232 to 0+266 Tested: Station 0+252; depth of 1.6 m from O.G. N: 7255460.09; E: 607992.82 Offset from centerline: 2.5 m E	161.08	2170	3.7	2093	98.2
3		Station 0+232 to 0+266 Tested: Station 0+248; depth of 1.3 m from O.G. N: 7255462.59; E: 607989.77 Offset from centerline: 2.7 m E	161.40	2233	3.7	2153	101.0
4							
			Average =	2106	4.6	2014	94.5
				DS =	1984	MS =	495

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



ASTM Designation D6938

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+242 to 0+256 at depth of 0.25 m and 0.0 m below surface. Testing from station 0+266 to 0+295 at depth of 1.75 m and 1.50 m below surface.

COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -26 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 17, 2021 Dayshift **By:** RO
Contractor: KCB **Construction Period:** March 17, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+319; depth of 2.2 m below O.G. Offset 1.1 m upstream of CL N: 7255437.5; E: 608049.6	161.8	2279	3.2	2210	103.7
2	150	Station 0+327; depth of 1.9 m below O.G. Offset 1.7 m upstream of CL N: 7255437.6; E: 608057.8	162.2	2384	2.7	2321	108.9
			Average =	2332	3.0	2266	106.3
				DS =	1972	MS =	578

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -26 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 17, 2021 Nightshift **By:** DY
Contractor: KCB **Construction Period:** March 17, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+322; N: 7255438.4 E: 608052.1	162.5	2247	3.2	2177	102.2
2	150	Station 0+307; N: 7255440.1 E: 608037.6	162.2	2275	3.5	2198	103.1
3	150	Station 0+305; N: 7255441.3 E: 608035.0	162.4	2177	3.7	2099	98.5
4	150	Station 0+318; N: 7255438.3 E: 608048.4	162.7	2237	2.1	2191	102.8
			Average =	2234	3.1	2166	101.7
				DS =	1986	MS =	580

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Zone 2A (Fine Filter - 19 mm minus)			
Material Source:	Zone 2A Stockpile	Proctor:	2131	kg/m ³

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Zone 2A (Fine Filter - 19 mm minus)			
Material Source:	Zone 2A Stockpile	Proctor:	2131	kg/m ³

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -19 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 20, 2021 Dayshift **By:** RO
Contractor: KCB **Construction Period:** March 20, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+367; depth of 1.1 m below O.G. Offset 3.0 m upstream of CL N: 7255436.1; E: 608097.8	162.7	2343	3.1	2272	106.6
2	250	Station 0+343; depth of 1.2 m below O.G. Offset 1.8 m upstream of CL N: 7255437.1; E: 608073.7	162.8	2345	3.4	2267	106.4
3	250	Station 0+339; depth of 0.9 m below O.G. Offset 3.6 m upstream of CL N: 7255438.9; E: 608069.9	163.1	2345	3.7	2262	106.1
4	250	Station 0+339; depth of 0.6 m below O.G. Offset 3.0 m upstream of CL N: 7255438.5; E: 608069.8	163.5	2283	3.2	2212	103.8
5	200	Station 0+342; depth of 0.25 m below O.G. Offset 5.2 m upstream of CL N: 7255440.3; E: 608079.6	164.0	2322	3.8	2237	105.0
			Average =	2328	3.4	2250	105.6
				DS =	1993	MS =	549

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -29 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 22, 2021 Dayshift **By:** RO
Contractor: KCB **Construction Period:** March 22, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+153; depth of 2.1 m below O.G. Offset 0.2 m downstream of CL N: 7255510.4; E: 607907.5	160.0	2174	3.6	2098	98.5
2	200	Station 0+160; depth of 1.8 m below O.G. Offset 0.5 m downstream of CL N: 7255507.9; E: 607913.2	160.1	2220	3.7	2140	100.4
3	100	Station 0+144; depth of 1.5 m below O.G. Offset 0.5 m upstream of CL N: 7255516.1; E: 607900.1	160.8	2166	4.3	2076	97.4
4	150	Station 0+157; depth of 1.2 m below O.G. Offset 0.8 m upstream of CL N: 7255510.3; E: 607911.2	160.9	2078	5.6	1968	92.4
5	200	Station 0+144; depth of 0.9 m below O.G. Offset 1.2 m upstream of CL N: 7255516.8; E: 607900.7	161.3	1991	3.5	1924	90.3
6	200	Station 0+145; depth of 0.6 m below O.G. Offset 1.7 m upstream of CL N: 7255516.6; E: 607901.5	161.5	2028	4.4	1943	91.2
		Material was placed to widen the slope of the FF fillet underliner in an underbuilt section between stations 0+130 to 0+160. Due to the width of the lifts the tamping plate was required to compact. Compaction efficiency was decreased each lift due to narrowness of the lift and close proximity to the slope edge. Maximum compaction effort was achieved with the equipment available, as per discretion of the QC monitor.					
			Average =	2110	4.2	2025	95.0
				DS =	1993	MS =	549

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Zone 2A (Fine Filter - 19 mm minus)			
Material Source:	Zone 2A Stockpile	Proctor:	2131	kg/m³

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Zone 2A (Fine Filter - 19 mm minus)			
Material Source:	Zone 2A Stockpile	Proctor:	2131	kg/m ³

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -30 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 24, 2021 Nightshift **By:** DY
Contractor: KCB **Construction Period:** March 24, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Station 0+370 to 0+415; key trench fillet Tested: Station 0+381; 1.9 m below O.G. N: 7255437; E: 608111	162.40	2267	5.2	2155	101.1
2	200	Station 0+370 to 0+415; key trench fillet Tested: Station 0+392; 1.8 m below O.G. N: 7255435; E: 608122	162.50	2255	3.8	2172	101.9
3	200	Station 0+370 to 0+415; key trench fillet Tested: Station 0+407; 1.7 m below O.G. N: 7255435; E: 608137	162.50	2167	3.7	2090	98.1
4	200	Station 0+370 to 0+415; key trench fillet Tested: Station 0+378; 1.5 m below O.G. N: 7255435; E: 608109	162.80	2232	4.7	2132	100.0
5	200	Station 0+370 to 0+415; key trench fillet Tested: Station 0+393; 1.5 m below O.G. N: 7255436; E: 608123	162.70	2210	3.7	2131	100.0
6	200	Station 0+370 to 0+415; key trench fillet Tested: Station 0+409; 1.5 m below O.G. N: 7255437; E: 608139	162.70	2253	4.8	2150	100.9
7	200	Station 0+370 to 0+415; key trench fillet Tested: Station 0+374; 1.2 m below O.G. N: 7255438; E: 608104	163.07	2252	4.9	2147	100.8
8	200	Station 0+370 to 0+415; key trench fillet Tested: Station 0+385; 1.2 m below O.G. N: 7255436; E: 608115	163.09	2271	4.4	2175	102.1
9	200	Station 0+370 to 0+415; key trench fillet Tested: Station 0+405; 1.2 m below O.G. N: 7255435; E: 608135	163.00	2250	5.0	2143	100.6
			Average =	2240	4.5	2144	100.6
				DS =	1996	MS =	563

Remarks: FF material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -30 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 24, 2021 Nightshift **By:** DY
Contractor: KCB **Construction Period:** March 24, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
10	200	Station 0+370 to 0+415; key trench fillet Tested: Station 0+374; 0.9 m below O.G. N: 7255437; E: 608104	163.40	2259	5.3	2145	100.7
11	200	Station 0+370 to 0+415; key trench fillet Tested: Station 0+384; 0.9 m below O.G. N: 7255437; E: 608114	163.40	2278	4.6	2178	102.2
12	200	Station 0+370 to 0+415; key trench fillet Tested: Station 0+400; 0.9 m below O.G. N: 7255436; E: 608130	163.30	2258	3.6	2180	102.3
			Average =	2265	4.5	2168	101.7
				DS =	1996	MS =	563

Remarks: FF material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Zone 2A (Fine Filter - 19 mm minus)			
Material Source:	Zone 2A Stockpile	Proctor:	2131	kg/m³

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -26 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 27, 2021 Dayshift **By:** RO
Contractor: KCB **Construction Period:** March 27, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+119; depth of 2.2 m below O.G. Offset 1.0 m upstream of CL N: 7255528.8; E: 607878.6	160.6	2176	3.8	2095	98.3
2	150	Station 0+113; depth of 1.9 m below O.G. Offset 1.5 m upstream of CL N: 7255532.4; E: 607873.2	160.9	2203	3.1	2136	100.2
3	150	Station 0+124; depth of 1.6 m below O.G. Offset 2.0 m upstream of CL N: 7255528.1; E: 607883.4	161.0	2243	4.1	2154	101.1
4	200	Station 0+112; depth of 1.3 m below O.G. Offset 2.5 m upstream of CL N: 7255533.7; E: 607873.1	161.4	2167	4.4	2075	97.4
5	150	Station 0+119; depth of 1.0 m below O.G. Offset 2.5 m upstream of CL N: 7255530.4; E: 607879.3	161.5	2248	3.3	2176	102.1
			Average =	2207	3.7	2127	99.8
				DS =	1985	MS =	573

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -29 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 27, 2021 Nightshift **By:** DY
Contractor: KCB **Construction Period:** March 27, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Station 0+110 to 0+135; key trench fillet Tested: Station 0+129; 13 m o/s from CL N: 7255527; E: 607889	161.70	2222	5.2	2112	99.1
2	200	Station 0+110 to 0+135; key trench fillet Tested: Station 0+118; 11 m o/s from CL N: 7255531; E: 607878	161.87	2262	3.7	2181	102.3
3	200	Station 0+110 to 0+135; key trench fillet Tested: Station 0+117; 12 m o/s from CL N: 7255532; E: 607878	162.15	2226	4.4	2132	100.0
4	200	Station 0+110 to 0+135; key trench fillet Tested: Station 0+128; 13 m o/s from CL N: 7255527; E: 607887	161.90	2225	3.8	2144	100.6
			Average =	2234	4.3	2142	100.5
				DS =	1985	MS =	573

Remarks: FF material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Zone 2A (Fine Filter - 19 mm minus)			
Material Source:	Zone 2A Stockpile	Proctor:	2131	kg/m³

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project:	<u>Amaruq IVR D-1 Dike Q.C.</u>	Test Apparatus:	<u>Troxler</u>	Troxler No:	<u>33362</u>
	<u>Amaruq, NU</u>	Specified Compaction:	<u>98 % Std. Proctor Max. Dry Density</u>		
Project No.:	<u>704-ENG.EARC03222-01</u>	Optimum Moisture (MC):	<u>in situ</u>		
Client:	<u>Agnico Eagle Mines Ltd.</u>	Temperature	Air:	<u>-40 °C</u>	Soil: <u>- °C</u>
Attention:	<u>Jennifer Pyliuk</u>	Date Tested:	<u>March 29, 2021 Nightshift</u>	By:	<u>JRC</u>
Contractor:	<u>KCB</u>	Construction Period:	<u>March 29, 2021 Nightshift</u>		

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

[illegible]

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -33 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 30, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** March 30, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Station 0+069 to 0+098 Tested: Station 0+081; depth of 1.9 m from O.G. N: 7255544.7; E: 607843.5 Offset from centerline: 4.5 m E	162.20	2354	4.3	2257	105.9
2	150	Station 0+072 to 0+101 Tested: Station 0+092; depth of 1.6 m from O.G. N: 7255539.7; E: 607864.3 Offset from centerline: 10.2 m E	161.80	2167	3.7	2090	98.1
3	150	Station 0+075 to 0+109 Tested: Station 0+078; depth of 1.3 m from O.G. N: 7255547.3; E: 607841.6 Offset from centerline: 5.9 m E	162.97	2178	3.9	2096	98.4
4	150	Station 0+076 to 0+110 Tested: Station 0+104; depth of 1.0 m from O.G. N: 7255537.2; E: 607866.2 Offset from centerline: 10.1 m E	162.30	2212	4.2	2123	99.6
5	200	Station 0+077 to 0+111 Tested: Station 0+94; depth of 0.6 m from O.G. N: 7255541.7; E: 607857.9 Offset from centerline: 9.6 m E	163.30	2230	4.2	2140	100.4
			Average =	2228	4.1	2141	100.5
				DS =	1998	MS =	481

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Zone 2A (Fine Filter - 19 mm minus)			
Material Source:	Zone 2A Stockpile	Proctor:	2131	kg/m³

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -32 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** April 6, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** April 6, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+368 to 0+140 Tested: Station 0+332; N:7255438.3 E:6078062.4 Offset from Centreline: 6.8 m E	164.9	2198	3.6	2122	99.6
2	150	Station 0+368 to 0+140 Tested: Station 0+291; N:7255443.1 E:608023.8 Offset from Centreline: 10.0 m E	164.0	2179	3.3	2109	99.0
3	150	Station 0+368 to 0+140 Tested: Station 0+252; N:7255460.9+G18 E:607993.4 Offset from Centreline: 11.5 m E	163.3	2194	3.7	2116	99.3
4	200	Station 0+368 to 0+140 Tested: Station 0+224; N:7255476.4 E:607969.4 Offset from Centreline: 12 m E	163.0	2215	6.1	2088	98.0
5	150	Station 0+368 to 0+140 Tested: Station 0+185; N:7255497.2 E:6079.37 Offset from Centreline: 13 m E	162.6	2225	3.5	2150	100.9
6	200	Station 0+310 to 0+225 Tested: Station 0+308; N:7255439.8 E:608039.1 Offset from Centreline: 7.5 m E	164.7	2161	2.9	2100	98.5
7	200	Station 0+310 to 0+225 Tested: Station 0+270; N:7255449.8 E:60807.1 Offset from Centreline: 9.1 m E	164.0	2173	3.9	2091	98.1
8	150	Station 0+310 to 0+225 Tested: Station 0+239; N:7255462.2 E:608982.0 Offset from Centreline: 10.9 m E	163.4	2187	4.2	2099	98.5
			Average =	1753	3.9	2109	79.2
				DS =	2010	MS =	578

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project:	Amaruq IVR D-1 Dike Q.C.	Test Apparatus:	Troxler	Troxler No:	33362
	Amaruq, NU	Specified Compaction:	98 % Std. Proctor Max. Dry Density		
Project No.:	704-ENG.EARC03222-01	Optimum Moisture (MC):	<i>in situ</i>		
Client:	Agnico Eagle Mines Ltd.	Temperature	Air:	-32 °C	Soil: - °C
Attention:	Jennifer Pyluk	Date Tested:	April 6, 2021 Nightshift		By: JRC
Contractor:	KCB	Construction Period:	April 6, 2021 Nightshift		

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source:	Zone 2A Stockpile	Proctor:	2131	kg/m ³
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Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
9	200	Station 0+368 to 0+140 Tested: Station 0+140; N:7255462.2 E:608982 Offset from Centreline: 10.9 m E	163.8	2221	3.4	2148	100.8
			Average =	2221	3.4	2148	100.8
				DS =	2010	MS =	578

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -18 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 7, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** April 7, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Station 0+100 to 0+130 Tested: Station 0+125; lift #1 D/S UL N: 7255526.6; E: 607886.24 Offset from centerline: 3.2 m E	162.87	2145	2.7	2089	98.0
2	150	Station 0+130 to 0+195 Tested: Station 0+156; lift #2 D/S UL N: 7255511.984; E: 607912.231 Offset from centerline: 2.8 m E	162.73	2150	2.8	2091	98.1
3	150	Station 0+100 to 0+130 Tested: Station 0+113; lift #2 D/S UL N: 7255526.6; E: 607886.24 Offset from centerline: 3.2 m E	163.36	2165	3.1	2100	98.5
4	150	Station 0+308 to 0+348 Tested: Station 0+336; lift #3 D/S UL N: 7255437.243; E: 608066.708 Offset from centerline: 1.9 m E	165.12	2164	3.6	2089	98.0
5	200	Station 0+260 to 0+308 Tested: Station 0+285; lift #3 D/S UL N: 7255443.114; E: 608018.803 Offset from centerline: 2.8 m E	164.48	2209	5.0	2104	98.7
6	200	Station 0+200 to 0+260 Tested: Station 0+236; lift #3 D/S UL N: 7255467.324; E: 607978.594 Offset from centerline: 0.4 m E	163.76	2236	5.8	2113	99.2
7	200	Station 0+200 to 0+260 Tested: Station 0+216; lift #3 D/S UL N: 7255478.279; E: 607961.403 Offset from centerline: 0.0 m E	163.71	2181	3.7	2103	98.7
			Average =	2179	3.8	2098	98.5
				DS =	1980	MS =	569

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Zone 2B (Fine Filter Amended with 4% Bentonite)		
Material Source:	Zone 2A Stockpile mixed with 4% Bentonite	Proctor:	2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+465 to 0+482 Tested: Station 0+471; 3.2 m below O.G. N:725542.8 E:608201.7 Offset from centreline: 0.4 m W	161.5	2250	3.6	2172	102.9
2	200	Station 0+465 to 0+482 Tested: Station 0+465; 3.0 m below O.G. N:7255428.6 E:6078195.1 Offset from centreline: 0.12 m W	161.6	2168	4.4	2077	98.4
			Average =	2209	4.0	2125	100.6
				DS =	1980	MS =	569

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -31 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** April 7, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** April 7, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+180 to 0+090 Tested: Station 0+158; N:7255510.6 E:607913.0 Offset from Centreline: 11.9 m E	163.0	2215	3.3	2144	100.6
2	150	Station 0+180 to 0+090 Tested: Station 0+104; N:7255536.4 E:607866.3 Offset from Centreline: 9.4 m E	163.9	2187	3.6	2111	99.1
3	150	Station 0+365 to 0+090 Tested: Station 0+337; N:7255436.6 E:608067.7 Offset from Centreline: 5.2 m E	165.5	2182	3.2	2114	99.2
4	150	Station 0+365 to 0+090 Tested: Station 0+289; N:7255440.8 E:608021.4 Offset from Centreline: 7.2 m E	165.0	2215	4.0	2130	100.0
5	150	Station 0+365 to 0+090 Tested: Station 0+248; N:7255460.3 E:6079581.9 Offset from Centreline: 8.0 m E	164.3	2217	4.0	2132	100.0
6	200	Station 0+365 to 0+090 Tested: Station 0+200; N:7255485.9 E:607947.5 Offset from Centreline: 8.8 m E	164.0	2184	4.1	2098	98.5
7	200	Station 0+365 to 0+090 Tested: Station 0+144; N:725516.4 E:607903.3 Offset from Centreline: 10.1 m E	163.7	2175	3.7	2097	98.4
8	200	Station 0+365 to 0+090 Tested: Station 0+103; N:725536.1 E:607864.1 Offset from Centreline: 8.2 m E	164.4	2202	3.8	2121	99.5
			Average =	1758	3.7	2118	79.5
				DS =	1980	MS =	569

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -33 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** April 7, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** April 7, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
9	200	Station 0+295 to 0+100 Tested: Station 0+269; N:7255448.0 E:608005.2 Offset from Centreline: 6.6 m E	165.0	2174	3.5	2100	98.5
10	150	Station 0+295 to 0+100 Tested: Station 0+225; N:7255471.5 E:607968.3 Offset from Centreline: 7.4 m E	164.5	2162	3.5	2089	98.0
11	150	Station 0+295 to 0+100 Tested: Station 0+192; N:7255489.8 E:607940.4 Offset from Centreline: 8.6 m E	164.2	2230	3.3	2159	101.3
12	200	Station 0+295 to 0+100 Tested: Station 0+157; N:725509 E:607911.6 Offset from Centreline: 9.8 m E	163.8	2205	3.1	2139	100.4
13	200	Station 0+295 to 0+100 Tested: Station 0+120; N:7255572.8 E:607879.3 Offset from Centreline: 8.7 m E	164.2	2178	3.6	2102	98.6
14	150	Station 0+276 to 0+180 Tested: Station 0+264; N:7255449.8 E:608000.8 Offset from Centreline: 5.9 m E	165.2	2183	3.5	2109	99.0
15	200	Station 0+276 to 0+180 Tested: Station 0+207; N:7255479.9 E:607952.6 Offset from Centreline: 6.4 m E	164.8	2223	3.7	2144	100.6
			Average =	1706	3.5	2120	77.4
				DS =	1980	MS =	569

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -33 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** April 7, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** April 7, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
16	200	Station 0+465 to 0+482 Tested: Station 0+469; N:7255432.0 E:608199.9 Offset from Centreline: 3.1 m E	161.5	2176	4.0	2092	98.2
17	200	Station 0+465 to 0+482 Tested: Station 0+475; N:7255432.9 E:608200.4 Offset from Centreline: 4.3 m E	161.2	2152	3.0	2089	98.0
			Average =	2164	3.5	2091	98.1
				DS =	1980	MS =	569

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -20 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 8, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** April 8, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Station 0+440 to 0+482 Tested: Station 0+471; 2.75 m below O.G. N: 7255432.695; E: 608201.621 Offset from centerline: 2.0 m E	161.70	2199	3.2	2131	100.0
2	250	Station 0+100 to 0+200 Tested: Station 0+156; Lift#5 N: 7255508.563; E: 607909.759 Offset from centerline: 3.0 m E	164.20	2235	4.3	2143	100.6
3	150	Station 0+100 to 0+200 Tested: Station 0+174; Lift#5 N: 7255499.345; E: 607925.324 Offset from centerline: 2.9 m E	164.10	2171	3.5	2098	98.5
4	150	Station 0+260 to 0+310 Tested: Station 0+290; Lift#6 N: 7255438.772; E: 608021.598 Offset from centerline: 0.4 m E	165.51	2169	3.7	2092	98.2
5	150	Station 0+260 to 0+310 Tested: Station 0+273; Lift#6 N: 7255444.289; E: 608007.345 Offset from centerline: 2.8 m E	165.57	2218	3.8	2137	100.3
6	150	Station 0+440 to 0+482 Tested: Station 0+450; 2.50 m below O.G. N: 7255434.537; E: 608180.321 Offset from centerline: 2.0 m E	162.10	2202	3.4	2130	100.0
7		Station 0+220 to 0+260 Tested: Station 0+232; Lift#7 N: 7255466.66; E: 607972.916 Offset from centerline: 1.1 m E	165.19	2176	4.1	2090	98.1
			Average =	2196	3.7	2117	99.4
				DS =	2012	MS =	538

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -20 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 8, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** April 8, 2021 Dayshift

Soil Description: Zone 2B (Fine Filter 19 mm minus Ammended with 4% Bentonite)

Material Source: Zone 2B Mixing Station **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Station 0+440 to 0+482 Tested: Station 0+471; 2.75 m below O.G. N: 7255427.98; E: 608201.2 Offset from centerline: 2.8 m E	161.64	2186	4.8	2086	98.8
2	150	Station 0+440 to 0+482 Tested: Station 0+458; 2.50 m below O.G. N: 7255428.495; E: 608187.782 Offset from centerline: 3.1 m E	162.07	2202	3.4	2130	100.9
			Average =	2194	4.1	2108	99.9
				DS =	2012	MS =	538

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -23 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** April 8, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** April 8, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+200 to 0+120 Tested: Station 0+180; N:7255495.6 E:607929.4 Offset from Centreline: 7.9 m E	164.7	2166	3.6	2091	98.1
2	200	Station 0+200 to 0+120 Tested: Station 0+127; N:7255522.4 E:6079884.7 Offset from Centreline: 6.9 m E	6.9	2174	3.6	2098	98.5
			Average =	2170	3.6	2095	98.3
				DS =	1988	MS =	577

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -10 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 9, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** April 9, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Station 0+440 to 0+482 Tested: Station 0+451; 2.2 m below O.G. N: 7255434.45; E: 608180.90 Offset from centerline: 2.6 m E	162.32	2179	4.2	2091	98.1
2	250	Station 0+440 to 0+482 Tested: Station 0+458; 1.9 m below O.G. N: 7255432.86; E: 608187.86 Offset from centerline: 1.4 m E	162.61	2299	3.7	2217	104.0
3	150	Station 0+100 to 0+220 Tested: Station 0+178; Lift#7 N: 7255495.15; E: 607926.85 Offset from centerline: 4.4 m E	165.05	2215	3.7	2136	100.2
4	150	Station 0+100 to 0+220 Tested: Station 0+145; Lift#7 N: 7255512.11; E: 607898.19 Offset from centerline: 4.1 m E	165.15	2198	3.8	2118	99.4
			Average =	2223	3.9	2141	100.4
				DS =	1974	MS =	573

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -33 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** April 9, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** April 9, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+440 to 0+465 Tested: Station 0+441; 1.6 m from depth of O.G. N:7255434.7 E:608171.5 Offset from Centreline: 5.5 m E	162.9	2228	3.8	2146	100.7
2	200	Station 0+440 to 0+465 Tested: Station 0+456; 1.6 m from depth of O.G. N:7255435.0 E:608186.5 Offset from Centreline: 6.1 m E	163.0	2232	3.4	2159	101.3
3	200	Station 0+440 to 0+465 Tested: Station 0+442; 1.3 m from depth of O.G. N:7255434.5 E:608172.2 Offset from Centreline: 5.2 m E	163.2	2213	3.2	2144	100.6
4	200	Station 0+440 to 0+465 Tested: Station 0+459; 1.3 m from depth of O.G. N:7255434.8 E:608188.8 Offset from Centreline: 5.9 m E	163.2	2256	3.3	2184	102.5
5	200	Station 0+435 to 0+455 Tested: Station 0+438; 1.0 m from depth of O.G. N:7255437.6 E:608168.9 Offset from Centreline: 8.3 m E	163.4	2211	3.4	2138	100.3
6	200	Station 0+435 to 0+455 Tested: Station 0+453; 1.0 m from depth of O.G. N:7255434.0 E:608183.7 Offset from Centreline: 5.0 m E	163.6	2201	3.2	2133	100.1
7	200	Station 0+435 to 0+455 Tested: Station 0+436; 0.8 m from depth of O.G. N:7255434.5 E:60856.5 Offset from Centreline: 5.2 m E	163.6	2250	3.3	2178	102.2
8	200	Station 0+435 to 0+455 Tested: Station 0+455; 0.8 m from depth of O.G. N:7255435.2 E:608185.4 Offset from Centreline: 6.3 m E	163.9	2183	3.0	2119	99.4
			Average =	1777	3.3	2150	80.7
				DS =	2012	MS =	581

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -34 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** April 9, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** April 9, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
9	200	Station 0+415 to 0+450 Tested: Station 0+417; 0.53 m from depth of O.G. N:7255437.9 E:608147.4 Offset from Centreline: 8.1 m E	163.8	2210	3.1	2144	100.6
10	150	Station 0+415 to 0+450 Tested: Station 0+445; 0.54 m from depth of O.G. N:7255436.7 E:608176.1 Offset from Centreline: 7.5 m E	164.1	2247	3.4	2173	102.0
11	150	Station 0+080 to 0+090 Tested: Station 0+085; N:7255544.9 E:607848.7 Offset from Centreline: 7.5 m E	164.5	2186	4.5	2092	98.2
			Average =	1329	3.7	2136	60.2
				DS =	2012	MS =	581

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -37 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** April 10, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** April 10, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+482 to 0+515 Tested: Station 0+503; 3.5 m below O.G. N:7255430.9 E:608233.3 Offset from Centreline: 3.0 m E	161.5	2187	3.0	2123	99.6
2	200	Station 0+080 to 0+095 Tested: Station 0+90; N:7255541.1 E:607852.9 Offset from Centreline: 6.4 m E	165.2	2270	3.8	2187	102.6
			Average =	2228	3.4	2155	101.1
				DS =	2007	MS =	580

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -38 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** April 11, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** April 11, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+482 to 0+526 Tested: Station 0+512; 3.6 m from depth of O.G. N:7255431.5 E:608242.2 Offset from Centreline: 3.7 m E	161.5	2251	3.7	2171	101.9
2	200	Station 0+482 to 0+526 Tested: Station 0+492; 3.4 m from depth of O.G. N:7255428.0 E:608222.2 Offset from Centreline: 0.3 m E	161.8	2194	3.1	2128	99.9
3	200	Station 0+482 to 0+526 Tested: Station 0+510; N:Not Available E:Not Available Offset from Centreline: Not Available	-	2237	3.3	2166	101.6
4	200	Station 0+482 to 0+526 Tested: Station 0+523; 3.6 m from depth of O.G. N:7255428.8 E:608253.6 Offset from Centreline: 1.1 m E	161.9	2155	3.1	2090	98.1
5	200	Station 0+482 to 0+526 Tested: Station 0+482; 2.7 m from depth of O.G. N:7255431.7 E:608213.1 Offset from Centreline: 3.3 m E	162.2	2170	3.6	2095	98.3
6	200	Station 0+482 to 0+526 Tested: Station 0+509; 3.2 m from depth of O.G. N:7255430.7 E:608239.4 Offset from Centreline: 2.9 m E	162.1	2205	3.7	2126	99.8
7	200	Station 0+482 to 0+526 Tested: Station 0+514; 2.8 m from depth of O.G. N:7255430.7 E:608244.5 Offset from Centreline: 3.0 m E	162.5	2209	3.3	2138	100.3
			Average =	2203	3.4	2131	99.9
				DS =	2013	MS =	592

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -24 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 12, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** April 12, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Sta. 0+402 to Sta. 0+448 Tested: Station 0+416; 2.5 m below O.G. N: 7255438.597; E: 608146.225 Offset from centerline: 4.9 m E	164.14	2197	5.0	2092	98.2
2	200	Sta. 0+485 to Sta. 0+526 Tested: Sta. 0+500; 2.5 m below O.G. N: 7255431.272; E: 608230.477 Offset from centerline: 1.9 m E	162.44	2193	3.8	2113	99.2
3	250	Sta. 0+485 to Sta. 0+526 Tested: Sta. 0+512; 2.2 m below O.G. N: 7255431.532; E: 608242.096 Offset from centerline: 3.0 m E	163.10	2226	4.1	2138	100.3
			Average =	2205	4.3	2114	99.2
				DS =	1989	MS =	531

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -35 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** April 12, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** April 12, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+465 to 0+526 Tested: Station 0+522; 1.9 m below O.G. N:7255431.6 E:608252.9 Offset from Centreline: 4.1 m E	163.6	2212	5.9	2089	98.0
2	200	Station 0+465 to 0+526 Tested: Station 0+493; 1.9 m below O.G. N:7255432.3 E:608229.8 Offset from Centreline: 4.3 m E	163.2	2210	5.2	2101	98.6
3	200	Station 0+465 to 0+526 Tested: Station 0+481; 1.55 m below O.G. N:7255432.7 E:608211.5 Offset from Centreline: 4.3 m E	163.1	2177	3.9	2095	98.3
4	200	Station 0+465 to 0+526 Tested: Station 0+523; 1.6 m below O.G. N:7255429.1 E:608253.2 Offset from Centreline: 1.6 m E	163.9	2234	5.0	2128	99.9
5	200	Station 0+465 to 0+526 Tested: Station 0+474; 1.2 m below O.G. N:7255434.3 E:608204.6 Offset from Centreline: 5.7 m E	163.4	2244	4.7	2143	100.6
6	150	Station 0+465 to 0+526 Tested: Station 0+506; 1.2 m below O.G. N:7255432.0 E:608236.4 Offset from Centreline: 4.3 m E	164.0	2199	4.8	2098	98.5
7	150	Station 0+465 to 0+526 Tested: Station 0+473; 0.74 m below O.G. N:7255434.7 E:608204.1 Offset from Centreline: 6.2 m E	163.8	2264	4.9	2158	101.3
8	200	Station 0+465 to 0+526 Tested: Station 0+509; 0.9 m below O.G. N:7255431.7 E:608239.7 Offset from Centreline: 3.9 m E	164.2	2163	3.6	2088	98.0
			Average =	2213	4.8	2113	99.2
				DS =	1981	MS =	577

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Zone 2A (Fine Filter - 19 mm minus)			
Material Source:	Zone 2A Stockpile	Proctor:	2131	kg/m³

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -25 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 13, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** April 13, 2021 Dayshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Sta. 0+523 to Sta. 0+526 Tested: Station 0+525; 0.6 m below O.G. N: 7255427.602; E: 608255.592 Offset from centerline: 4.7 m	164.88	2230	4.4	2136	100.2
2	200	Sta. 0+450 to Sta. 0+475 Tested: Station 0+466; 0.25 m below O.G. N: 7255436.522; E: 608196.058 Offset from centerline: 5.4 m	164.34	2197	5.1	2090	98.1
3	250	Sta. 0+475 to Sta. 0+497 Tested: Station 0+493; 0.25 m below O.G. N: 7255435.361; E: 608223.266 Offset from centerline: 5.5 m	164.64	2193	4.9	2091	98.1
4	200	Sta. 0+497 to Sta. 0+526 Tested: Station 0+526; 0.25 m below O.G. N: 7255425.637; E: 608257.678 Offset from centerline: 2.9 m	165.26	2248	4.9	2143	100.6
5	200	Sta. 0+497 to Sta. 0+526 Tested: Station 0+519; 0.25 m below O.G. N: 7255433.232; E: 608249.805 Offset from centerline: 9.7 m	165.16	2258	5.3	2144	100.6
			Average =	2225	4.9	2121	99.5
				DS =	1988	MS =	534

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project:	Amaruq IVR D-1 Dike Q.C.	Test Apparatus:	Troxler	Troxler No:	33362
	Amaruq, NU	Specified Compaction:	98 % Std. Proctor Max. Dry Density		
Project No.:	704-ENG.EARC03222-01	Optimum Moisture (MC):	<i>in situ</i>		
Client:	Agnico Eagle Mines Ltd.	Temperature	Air:	-10 °C	Soil: - °C
Attention:	Jennifer Pyluik	Date Tested:	April 15, 2021 Dayshift	By:	RO
Contractor:	KCB	Construction Period:	April 15, 2021 Dayshift		

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source:	Zone 2A Stockpile	Proctor:	2131	kg/m ³
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Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Spillway underliner, Station 0+061; Offset 1.4 m upstream of CL N: 7255553.5; E: 607826.1	165.4	2166	3.2	2099	98.5
			Average =	2166	3.2	2099	98.5
				DS =	1967	MS =	581

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -7 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 15, 2021 Nightshift **By:** DY
Contractor: KCB **Construction Period:** April 15, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Bench; Sta. 0+525; 1st lift N: 7255425; E: 608255	163.45	2198	4.5	2103	98.7
2	200	Bench; Sta. 0+525; 2nd lift N: 7255425; E: 608255	163.75	2195	4.7	2096	98.4
3	200	Bench; Sta. 0+525; 3rd lift N: 7255425; E: 608255	164.05	2242	3.7	2162	101.5
4	200	Bench; Sta. 0+525; 4th lift N: 7255425; E: 608255	164.35	2199	5.1	2092	98.2
5	200	Bench; Sta. 0+525; 5th lift N: 7255425; E: 608255	164.65	2244	4.2	2154	101.1
6	200	Bench; Sta. 0+525; 6th lift N: 7255425; E: 608255	164.95	2183	4.2	2095	98.3
7	200	Bench; Sta. 0+525; 7th lift N: 7255425; E: 608255	165.16	2307	4.4	2210	103.7
8	200	Bench; Sta. 0+525; 9th lift N: 7255425; E: 608255	165.55	2230	5.1	2122	99.6
			Average =	2225	4.5	2129	99.9
				DS =	1988	MS =	534

Remarks: FF material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Zone 2A (Fine Filter - 19 mm minus)			
Material Source:	Zone 2A Stockpile	Proctor:	2131	kg/m ³

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -19 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 22, 2021 **By:** DY
Contractor: KCB **Construction Period:** April 22, 2021 Nightshift

Soil Description: Zone 2A (Fine Filter - 19 mm minus)

Material Source: Zone 2A Stockpile **Proctor:** 2131 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Spillway; 9 m o/s from dike CL; 1st lift N: 7255535; E: 607830	164.55	2212	4.5	2117	99.3
2	200	Spillway; 27 m o/s from dike CL; 1st lift N: 7255516; E: 607828	164.30	2198	4.5	2103	98.7
			Average =	2205	4.5	2110	99.0
				DS =	1972	MS =	579

Remarks: FF material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



APPENDIX G-3B

QC Field Results – Zone 2B
FFAB Material

ASTM Designation D6938

Soil Description:	Zone 2B (Fine Filter Amended with 4% Bentonite)		
Material Source:	Zone 2A Stockpile mixed with 4% Bentonite	Proctor:	2111 kg/m ³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Station 0+482 to 0+500 Tested: Station 0+455; 3.5 m below O.G. N:7255426.9 E:608214.0 Offset from centreline: 1.4 m W	161.1	2148	3.8	2069	98.0
			Average =	2148	3.8	2069	98.0
				DS =	2007	MS =	580

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -38 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** April 11, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** April 11, 2021 Nightshift

Soil Description: Zone 2B (Fine Filter Amended with 4% Bentonite)

Material Source: Zone 2A Stockpile mixed with 4% Bentonite **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+482 to 0+526 Tested: Station 0+486; 3.3 m below O.G. N:7255426.1 E:608216.9 Offset from centreline: 2.3 m W	161.5	2235	3.7	2155	102.1
2	200	Station 0+482 to 0+526 Tested: Station 0+505; 3.7 m below O.G. N:7255426.7 E:608235.3 Offset from centreline: 1.3 m W	161.3	2218	3.5	2143	101.5
3	200	Station 0+482 to 0+526 Tested: Station 0+510; 3.0 m below O.G. N:N/A E:N/A Offset from centreline: 2.3 m W	-	2234	3.8	2152	101.9
4	150	Station 0+482 to 0+526 Tested: Station 0+515; 3.6 m below O.G. N:7255424.9 E:6082245.9 Offset from centreline: 2.8 m W	161.8	2234	4.0	2148	101.8
5	150	Station 0+482 to 0+526 Tested: Station 0+480; 2.5 m below O.G. N:7255428.1 E:608210.2 Offset from centreline: 0.40 m W	162.2	2226	4.1	2138	101.3
6	150	Station 0+482 to 0+526 Tested: Station 0+504; 3.0 m below O.G. N:7255425.0 E:608234.2 Offset from centreline: 2.5 m W	162.0	2192	4.4	2100	99.5
7	200	Station 0+482 to 0+526 Tested: Station 0+516; 2.8 m below O.G. N:7255424.3 E:608246.9 Offset from centreline: 3.4 m W	162.5	2177	3.4	2105	99.7
			Average =	2216	3.8	2134	101.1
				DS =	2013	MS =	592

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -24 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 12, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** April 12, 2021 Dayshift

Soil Description: Zone 2B (Fine Filter 19 mm minus Ammended with 4% Bentonite)

Material Source: Zone 2B Mixing Station **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Station 0+485 to 0+526 Tested: Station 0+511; 2.5 m below O.G. N: 7255425.46; E: 608241.343 Offset from centerline: 3.0 m	162.73	2220	4.7	2120	100.4
2	200	Station 0+380 to 0+420 Tested: Station 0+435; 2.5 m below O.G. N: 7255428.878; E: 608164.792 Offset from centerline: 3.5 m	161.94	2225	4.7	2125	100.7
3	200	Station 0+380 to 0+445 Tested: Station 0+434; 0.0 m below O.G. N: 7255438.156; E: 608164.71 Offset from centerline: 5.4 m	164.55	2221	4.2	2131	100.9
4	200	Station 0+380 to 0+445 Tested: Station 0+417; 0.25 m above O.G. N: 7255438.343; E: 608147.484 Offset from centerline: 5.2 m	164.65	2174	4.7	2076	98.3
			Average =	2210	4.6	2113	100.1
				DS =	1989	MS =	531

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -25 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 13, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** April 13, 2021 Dayshift

Soil Description: Zone 2B (Fine Filter 19 mm minus Ammended with 4% Bentonite)

Material Source: Zone 2B Mixing Station **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Sta. 0+450 to Sta. 0+480 Tested: Sta. 0+471; 0.0 m below O.G. N: 7255435.984; E: 608200.98 Offset from centerline: 5.1 m	164.65	2185	5.6	2069	98.0
2	200	Sta. 0+450 to Sta. 0+480 Tested: Sta. 0+471; 0.25 m above O.G. N: 7255436.614; E: 608189.384 Offset from centerline: 5.4 m	164.89	2190	4.9	2088	98.9
3	200	Sta. 0+480 to Sta. 0+526 Tested: Sta. 0+502; 0.0 m above O.G. N: 7255434.9391; E: 608232.64 Offset from centerline: 5.6 m	165.05	2248	5.6	2129	100.9
4	200	Sta. 0+480 to Sta. 0+526 Tested: Sta. 0+526; 0.0 m above O.G. N: 7255427.501; E: 608256.717 Offset from centerline: 4.8 m	165.46	2204	3.7	2125	100.7
			Average =	2207	5.0	2103	99.6
				DS =	1988	MS =	534

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Zone 2B (Fine Filter Amended with 4% Bentonite)		
Material Source:	Zone 2A Stockpile mixed with 4% Bentonite	Proctor:	2111 kg/m ³

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -32 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 5, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** March 5, 2021 Nightshift

Soil Description: Fine Filter amended with bentonite (FFAB) - 19 mm minus

Material Source: Zone 2B (FFAB) **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Station 0+130; depth of 3.0 m from surface	-	2142	7.1	2000	98.1
2	150	Station 0+145; depth of 3.0 m from surface	-	2028	6.7	1901	93.3
3	100	Station 0+155; depth of 3.0 m from surface	-	2099	5.6	1988	97.5
4	150	Station 0+170; depth of 3.0 m from surface	-	2162	5.3	2053	100.7
			Average =	2108	6.2	1986	97.4
				DS =	1998	MS =	525

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Fine Filter amended with bentonite (FFAB) - 19 mm minus			
Material Source:	Zone 2B (FFAB)	Proctor:	2038	kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Station 0+175.6; depth of 3.0 m from surface N: 7255501.9; E:607928.2	159.0	2130	5.5	2019	99.1
2	200	Station 0+165.0; depth of 3.0 m from surface N: 7255505.6; E: 607918.0	159.1	2126	6.4	1998	98.0
3	200	Station 0+163.6; depth of 3.0 m from surface N: 7255503.9; E: 607915.3	159.1	2126	6.3	2000	98.1
4	150	Station 0+158.8; depth of 3.0 m from surface N: 7255506.8; E: 607911.4	159.1	2184	7.6	2030	99.6
			Average =	2142	6.5	2012	98.7
				DS =	1974	MS =	511

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift. Testing from station 0+150 to 0+180 at depth of 3.0m below surface.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -28 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 7, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** March 7, 2021 Nightshift

Soil Description: Fine Filter amended with bentonite (FFAB) - 19 mm minus

Material Source: Zone 2B (FFAB) **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Station 0+141; depth of 2.75 m from surface	159.8	2162	4.8	2063	101.2
2	200	Station 0+155; depth of 2.75 m from surface	159.4	2217	5.2	2107	103.4
3	200	Station 0+173; depth of 2.75 m from surface	159.4	2153	6.1	2029	99.6
4	201	Station 0+148; depth of 2.5 m from surface	160.0	2175	5.3	2066	101.4
5	202	Station 0+159; depth of 2.5 m from surface	159.6	2173	5.8	2054	100.8
6	203	Station 0+170; depth of 2.5 m from surface	159.6	2160.8	5.3	2052	100.7
7	204	Station 0+133; depth of 2.5 m from surface	160.0	2113.2	5.5	2003	98.3
8	205	Station 0+134; depth of 2.5 m from surface	160.0	2103.1	5.1	2001	98.2
			Average =	2157	5.4	2047	100.4
				DS =	1981	MS =	550

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+130 to 0+180 at depth of 2.75 m and 2.5 m below surface.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -40 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** March 8, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** March 8, 2021 Nightshift

Soil Description: Fine Filter amended with bentonite (FFAB) - 19 mm minus

Material Source: Zone 2B (FFAB) **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Sta 0+181; 1.4 m o/s south from trench centreline	158.6	2151	5.3	2043	100.2
2	150	Sta 0+199; 1.3 m o/s north from trench centreline	158.8	2172	5.7	2055	100.8
3	200	Sta 0+188; 1.2 m o/s north from trench centreline	159.1	2128	4.9	2029	99.6
4	200	Sta 0+196; 1.9 m o/s south from trench centreline	159.0	2125	5.3	2018	99.0
			Average =	2144	5.3	2036	99.9
				DS =	1987	MS =	569

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+180 to 0+205 at depth of 3.25 m and 3.0 m below surface.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -40 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 9, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** March 9, 2021 Dayshift

Soil Description: Fine Filter amended with bentonite (FFAB) - 19 mm minus

Material Source: Zone 2B (FFAB) **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+184; depth of 2.75 m from surface N: 7255495.98; E: 607934.93	159.4	2175	6.7	2038	100.0
2	200	Station 0+195.8; depth of 2.75 m from surface N: 7255495.98; E: 607934.93	159.2	2141	5.5	2029	99.6
			Average =	2158	6.1	2034	99.8
				DS =	1999	MS =	502

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+180 to 0+200 at depth of 2.75 m below surface.



ASTM Designation D6938

Soil Description:	Fine Filter amended with bentonite (FFAB) - 19 mm minus			
Material Source:	Zone 2B (FFAB)	Proctor:	2038	kg/m ³

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift. Testing from station 0+180 to 0+205 at depth 2.50 m below surface.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -40 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** March 9, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** March 9, 2021 Nightshift

Soil Description: Fine Filter (FF) - 19 mm minus
Material Source: Zone 2A (FF) **Proctor:** 2122 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Sta 0+136; 3.6 m o/s north from trench centreline	160.2	2184	4.8	2084	98.2
2	200	Sta 0+169; 2.2 m o/s north from trench centreline	159.9	2173	3.8	2093	98.6
3	200	Sta 0+170; 2.9 m o/s north from trench centreline	159.9	2214	4.3	2123	100.0
			Average =	2190	4.3	2100	99.0
				DS =	2006	MS =	580

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+130 to 0+170 at depth of 2.25 m below surface



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -46 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 11, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** March 11, 2021 Nightshift

Soil Description: Fine Filter amended with bentonite (FFAB) - 19 mm minus

Material Source: Zone 2B (FFAB) **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+217; depth of 2.50 m from surface 1.1 m o/s South from trench centreline	159.8	2129	4.9	2030	99.6
2	200	Station 0+233; depth of 3.3 m from surface 1.1 m o/s North from trench centreline	159.3	2115	3.8	2038	100.0
3	200	Station 0+235; depth of 3.0 m from surface 2.4 m o/s South from trench centreline	159.6	2123	5.1	2020	99.1
4	200	Station 0+229; depth of 2.75 m from surface 1.2 m o/s North from trench centreline	159.8	2154	5.6	2040	100.1
5	200	Station 0+239.5; depth of 2.75 m from surface 2.75 m o/s North from trench centreline	159.8	2090	4.3	2004	98.3
6	150	Station 0+222; depth of 2.50 m from surface 1.3 m o/s South from trench centreline	159.9	2130	4.8	2032	99.7
7	150	Station 0+234; depth of 2.50 m from surface trench centreline	159.9	2126	5.1	2023	99.3
			Average =	2124	4.8	2027	99.4
				DS =	2005	MS =	522

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+220 to 0+248 at depth of 2.50 m below surface.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -47 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 12, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** March 12, 2021 Nightshift

Soil Description: Fine Filter amended with bentonite (FFAB) - 19 mm minus

Material Source: Zone 2B (FFAB) **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+260; depth of 3.30 m from surface O/S South from trench centreline	-	2162	5.4	2051	100.6
2	200	Station 0+268; depth of 3.0 m from surface O/S North from trench centreline	-	2152	5.9	2032	99.7
3	200	Station 0+273; depth of 3.0 m from surface trench centreline	-	2163	4.6	2068	101.5
			Average =	2159	5.3	2050	100.6
				DS =	2005	MS =	545

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+248 to 0+280 at depth of 3.30 m below surface and 3.0 m below surface. No nightshift surveyor to give elevations.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -45 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 13, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** March 13, 2021 Nightshift

Soil Description: Fine Filter amended with bentonite (FFAB) - 19 mm minus

Material Source: Zone 2B (FFAB) **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+250; depth of 2.50 m from surface O/S North from trench centreline	-	2180	3.8	2100	103.0
2	200	Station 0+270; depth of 2.50 m from surface O/S South from trench centreline	-	2158	4.4	2067	101.4
3	150	Station 0+285; depth of 3.3 m from surface trench centreline	-	2124	4.1	2040	100.1
			Average =	2154	4.1	2069	101.5
				DS =	1996	MS =	572

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+240 to 0+280 at depth of 2.50 m below surface and station 0+280 to 0+300 at depth 3.3 m below surface. No surveyor to give elevations.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -30 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 14, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** March 14, 2021 Dayshift

Soil Description: Zone 2B (Fine Filter Ammended with Bentonite)

Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Station 0+280 to 0+312 Tested: Station 0+288; depth of 3.0 m from O.G. N: 7255440.74; E: 608019.0 Offset from centerline: 1.0 m E	160.17	2226	5.9	2102	103.1
2	200	Station 0+280 to 0+312 Tested: Station 0+295; depth of 2.75 m from O.G. N: 7255441.16; E: 608026.75 Offset from centerline: 3.1 m E	161.71	2254	4.7	2153	105.6
			Average =	2240	5.3	2128	104.4
				DS =	1984	MS =	495

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -30 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 14, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** March 14, 2021 Dayshift

Soil Description: Zone 2B (Fine Filter Ammended with Bentonite)

Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+280 to 0+312 Tested: Station 0+288; depth of 3.0 m from O.G. N: 7255440.74; E: 608019.0 Offset from centerline: 1.0 m E	160.17	2226	5.9	2102	103.1
2	200	Station 0+280 to 0+312 Tested: Station 0+295; depth of 2.75 m from O.G. N: 7255441.16; E: 608026.75 Offset from centerline: 3.1 m E	161.71	2254	4.7	2153	105.6
			Average =	2240	5.3	2128	104.4
				DS =	1984	MS =	495

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -30 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 14, 2021 Dayshift **By:** CP
Contractor: KCB **Construction Period:** March 14, 2021 Dayshift

Soil Description: Zone 2B (Fine Filter Ammended with Bentonite)

Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+280 to 0+312 Tested: Station 0+288; depth of 3.0 m from O.G. N: 7255440.74; E: 608019.0 Offset from centerline: 1.0 m E	160.17	2226	5.9	2102	103.1
2	200	Station 0+280 to 0+312 Tested: Station 0+295; depth of 2.75 m from O.G. N: 7255441.16; E: 608026.75 Offset from centerline: 3.1 m E	161.71	2254	4.7	2153	105.6
			Average =	2240	5.3	2128	104.4
				DS =	1984	MS =	495

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -33 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 15, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** March 15, 2021 Nightshift

Soil Description: Fine Filter amended with bentonite (FFAB) - 19 mm minus

Material Source: Zone 2B (FFAB) **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+225.1; depth of 0.25 m above surface N:725547 E:607971.56	162.5	2150	4.9	2050	100.6
2	200	Station 0+231.5; depth of 0.25 m above surface N:725547.4 E:607976.4	162.6	2143	7.2	1999	98.1
3	200	Station 0+230; depth of 0.50 m above surface N:725547.1 E:607925.8	162.8	2149	5.6	2035	99.9
4	200	Station 0+217; depth of 0.50 m above surface N:725546.2 E:607965.4	162.6	2102	5.2	1998	98.0
			Average =	2136	5.7	2021	99.1
				DS =	2014	MS =	545

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift. Testing from station 0+216 to 0+241 at depth of 0.25 m and 0.50 m above ground surface.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -26 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 16, 2021 Nightshift **By:** DY
Contractor: KCB **Construction Period:** March 16, 2021 Dayshift

Soil Description: Zone 2B (Fine Filter Ammended with Bentonite)

Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+310 to 0+355 Tested: Station 0+342; depth of 2.7 m from O.G. N: 7255434.7; E: 608072.3	160.80	2165	5.3	2056	100.9
2	200	Station 0+310 to 0+355 Tested: Station 0+322; depth of 2.5 m from O.G. N: 7255435.7; E: 608051.0	161.00	2207	5.3	2096	102.8
3	100	Station 0+310 to 0+355 Tested: Station 0+342; depth of 2.6 m from O.G. N: 7255436.0; E: 608072.2	160.90	2195	5.4	2083	102.2
4	150	Station 0+310 to 0+355 Tested: Station 0+345; depth of 2.6 m from O.G. N: 7255436.0; E: 608075.1 Offset from centerline: 1.0 m E	160.90	2152	4.2	2065	101.3
5	150	Station 0+310 to 0+355 Tested: Station 0+345; depth of 2.5 m from O.G. Offset from centerline: 1.0 m E	161.10	2153	4.9	2052	100.7
6	150	Station 0+310 to 0+355 Tested: Station 0+345; depth of 2.5 m from O.G. Offset from centerline: 1.0 m E	161.10	2186	4.6	2090	102.6
			Average =	2176	5.0	2074	101.8
				DS =	1984	MS =	577

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -26 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 17, 2021 Dayshift **By:** RO
Contractor: KCB **Construction Period:** March 17, 2021 Dayshift
Soil Description: Zone 2B (Fine Filter Ammended with 6% Bentonite)
Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+336; depth of 2.75 m below O.G. Offset 0.3 m upstream of CL N: 7255435.1; E: 608066.2	161.30	2242	4.4	2147	105.3
2	200	Station 0+317; depth of 2.5 m below O.G. Offset 1.0 m upstream of CL N: 7255435.1; E: 608066.2	161.40	2275	4.2	2185	107.2
3	200	Station 0+338; depth of 2.5 m below O.G. Offset 0.6 m upstream of CL N: 7255435.1; E: 608066.2	161.70	2281	3.8	2196	107.8
			Average =	2266	4.1	2176	106.8
				DS =	1986	MS =	580

Remarks: FFAB material specified compaction per Technical Specifications,
 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
 of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -26 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 17, 2021 Nightshift **By:** DY
Contractor: KCB **Construction Period:** March 17, 2021 Nightshift

Soil Description: Zone 2B (Fine Filter Ammended with 6% Bentonite)

Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	100	Station 0+340 to 0+370 Tested: Station 0+355; depth of 3.0 m from O.G. N: 7255435.8; E: 608084.7	160.50	2208	4.5	2113	103.7
2	150	Station 0+340 to 0+370 Tested: Station 0+357; depth of 2.9 m from O.G. N: 7255435.6; E: 608087.5	160.60	2132	4.5	2040	100.1
3	100	Station 0+340 to 0+370 Tested: Station 0+358; depth of 2.8 m from O.G. N: 7255437.0; E: 608088.6	160.73	2201	4.8	2100	103.0
4	150	Station 0+340 to 0+370 Tested: Station 0+357; depth of 2.6 m from O.G. N: 7255432.1; E: 608087.1	160.94	2155	4.0	2072	101.7
5	100	Station 0+340 to 0+370 Tested: Station 0+350; depth of 2.6 m from O.G. N: 7255434.5; E: 608080.7	160.90	2167	4.7	2070	101.6
			Average =	2173	4.5	2079	102.0
				DS =	1986	MS =	580

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -25 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 18, 2021 Dayshift **By:** RO
Contractor: KCB **Construction Period:** March 18, 2021 Dayshift
Soil Description: Zone 2B (Fine Filter Ammended with 6% Bentonite)
Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+367; depth of 3.0 m below O.G. Offset 1.4 m downstream of CL N: 7255432.8; E: 608096.8	161.10	2190	4.8	2090	102.6
2	150	Station 0+360; depth of 2.75 m below O.G. Offset 2.6 m downstream of CL N: 7255431.8; E: 608089.5	161.40	2209	4.5	2115	103.8
3	200	Station 0+281; Liner hinge bench Offset 5.1 m downstream of CL N: 7255446.7; E: 608017.0	163.30	2198	4.8	2096	102.8
			Average =	2199	4.7	2100	103.1
				DS =	1986	MS =	580

Remarks: FFAB material specified compaction per Technical Specifications,
 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
 of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -23 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 18, 2021 Nightshift **By:** DY
Contractor: KCB **Construction Period:** March 18, 2021 Nightshift

Soil Description: Zone 2B (Fine Filter Amended with 6% Bentonite)
Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Station 0+270 to 0+320; liner hinge Tested: Station 0+307; 0.5 m above O.G. N: 7255442.5; E: 608037.6	164.06	2181	5.1	2075	101.8
2	150	Station 0+270 to 0+320; liner hinge Tested: Station 0+283; 0.5 m above O.G. N: 7255446.7; E: 608017.9	163.60	2173	4.5	2079	102.0
			Average =	2177	4.8	2077	101.9
				DS =	1972	MS =	578

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -25 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 18, 2021 Nightshift **By:** DY
Contractor: KCB **Construction Period:** March 18, 2021 Nightshift

Soil Description: Zone 2B (Fine Filter Amended with 4% Bentonite)
Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Station 0+362 to 0+388 Tested: Station 0+376; 3.5 m below O.G. N: 7255432.4; E: 608106.3	160.80	2229	4.0	2143	101.5
2	150	Station 0+362 to 0+388 Tested: Station 0+382; 3.3 m below O.G. N: 7255434; E: 608110	161.00	2158	4.3	2069	98.0
			Average =	2193	4.2	2106	99.8
				DS =	1972	MS =	578

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -22 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 19, 2021 Dayshift **By:** RO
Contractor: KCB **Construction Period:** March 19, 2021 Dayshift

Soil Description: Zone 2B (Fine Filter Ammended with 4% Bentonite)

Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+378; depth of 3.0 m below O.G. Offset 1.8 m downstream of CL N: 7255432.2; E: 608108.6	161.20	2213	5.0	2109	99.9
2	100	Station 0+354; depth of 2.75 m below O.G. Offset 1.3 m upstream of CL N: 7255435.9; E: 608084.1	161.40	2189	4.2	2101	99.5
3	150	Station 0+373; depth of 2.75 m below O.G. Offset 2.6 m downstream of CL N: 7255431.5; E: 608103.4	161.40	2201	4.7	2101	99.5
4	200	Station 0+366; depth of 2.5 m below O.G. Offset 0.6 m downstream of CL N: 7255433.6; E: 608096.0	161.70	2224	4.1	2137	101.2
			Average =	2207	4.5	2112	100.0
				DS =	1983	MS =	548

Remarks: FFAB material specified compaction per Technical Specifications,
 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
 of 6 passes over the lift.



ASTM Designation D6938



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -24 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 20, 2021 Nightshift **By:** DY
Contractor: KCB **Construction Period:** March 20, 2021 Nightshift

Soil Description: Zone 2B (Fine Filter Amended with 4% Bentonite)
Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Station 0+408 to 0+423; key trench Tested: Station 0+415; 2.5 m below O.G. N: 7255436; E: 608145	160.84	2176	4.8	2076	98.3
2	150	Station 0+408 to 0+423; key trench Tested: Station 0+408; 2.5 m below O.G. N: 7255431; E: 608138	160.80	2179	4.3	2089	99.0
			Average =	2177	4.6	2083	98.6
				DS =	1983	MS =	548

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -24 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 20, 2021 Nightshift **By:** DY
Contractor: KCB **Construction Period:** March 20, 2021 Nightshift

Soil Description: Zone 2B (Fine Filter Amended with 6% Bentonite)
Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	150	Station 0+320 to 0+360; underliner hinge Tested: Station 0+353; 0.1 m above O.G. N: 7255440; E: 608083	164.26	2234	4.9	2130	104.5
2	150	Station 0+320 to 0+360; underliner hinge Tested: Station 0+327; 0.1 m above O.G. N: 7255442; E: 608060	164.05	2226	4.8	2124	104.2
3		Station 0+320 to 0+360; underliner hinge Tested: Station 0+324; 0.3 m above O.G. N: 7255442; E: 608054	164.20	2162	5.7	2045	100.3
4		Station 0+320 to 0+360; underliner hinge Tested: Station 0+351; 0.3 m above O.G. N: 7255441; E: 608082	164.48	2149	5.0	2047	100.4
			Average =	2193	5.1	2087	102.4
				DS =	1983	MS =	548

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Zone 2B (Fine Filter Amended with 4% Bentonite)		
Material Source:	Zone 2A Stockpile mixed with 4% Bentonite	Proctor:	2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % SPD
1	200	Station 0+420 to 0+425 Tested: Station 0+424; 3.3 m below O.G. N:7255543.2 E:6078154.5 Offset from centreline: 2.8 m W	161.0	2203	5.4	2090	99.0
			Average =	2203	5.4	2090	99.0
				DS =	1990	MS =	574

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



ASTM Designation D6938

Soil Description:	Zone 2B (Fine Filter Amended with 4% Bentonite)		
Material Source:	Zone 2A Stockpile mixed with 4% Bentonite	Proctor:	2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+442 to 0+465 Tested: Station 0+455; 3.6 m below O.G. N:7255432.8 E:608185 Offset from centreline: 3.8 m E	161.1	2222	4.0	2137	101.2
2	200	Station 0+442 to 0+465 Tested: Station 0+460; 3.3 m below O.G. N:7255433.1 E:607185.2 Offset from centreline: 4.1 m W	161.3	2224	3.9	2141	101.4
			Average =	2223	4.0	2139	101.3
				DS =	2002	MS =	577

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -41 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** March 30, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** March 30, 2021 Nightshift

Soil Description: Zone 2B (Fine Filter Amended with 6% Bentonite)

Material Source: Zone 2A Stockpile mixed with 6% Bentonite **Proctor:** 2038 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+080 to 0+112 Tested: Station 0+109; at original ground N:7255536.9 E:607872.8 Offset from centreline: 10 m E	162.9	2188	3.9	2106	103.3
2	150	Station 0+080 to 0+112 Tested: Station 0+092; at original ground N:7255536.9 E:607872.8 Offset from centreline: 9 m E	163.9	2235	4.2	2145	105.3
3	200	Station 0+080 to 0+112 Tested: Station 0+107; at 0.25 m above O.G. N:7255538.6 E:607870.6 Offset from centreline: 9.5 m E	163.3	2205	5.1	2098	102.9
4	200	Station 0+080 to 0+112 Tested: Station 0+089; at 0.25 m above O.G. N:7255546.3 E:607854.7 Offset from centreline: 4.0 m E	164.2	2223	5.0	2117	103.9
Average =			2213	4.6	2117	103.9	
DS =			1990	MS =	574		

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -32 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 24, 2021 Dayshift **By:** RO
Contractor: KCB **Construction Period:** March 24, 2021 Dayshift
Soil Description: Zone 2B (Fine Filter Ammended with 4% Bentonite)
Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+404; depth of 3.0 m below O.G. Offset 0.5 m upstream of CL	~161.5	2211	5.6	2094	99.2
2	100	Station 0+397; depth of 2.75 m below O.G. Offset 1.3 m upstream of CL	~161.75	2264	5.3	2150	101.8
3	200	Station 0+396; depth of 2.5 m below O.G. Offset 0.6 m downstream of CL	~162.0	2213	2095.0	2095	99.2
			Average =	2229	702.0	2113	100.1
				DS =	1996	MS =	563

Remarks: FFAB material specified compaction per Technical Specifications,
 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
 of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -31 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 25, 2021 Dayshift **By:** RO
Contractor: KCB **Construction Period:** March 25, 2021 Dayshift
Soil Description: Zone 2B (Fine Filter Ammended with 4% Bentonite)
Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+388; at O.G. Offset 5.0 m upstream of CL N: 7255439.7 E: 608118.3	164.50	2237	4.6	2137	101.2
2	150	Station 0+374; depth of 0.25 above O.G. Offset 5.0 m upstream of CL N: 7255440.2 E: 608104.1	164.70	2171	4.5	2078	98.4
			Average =	2204	4.6	2108	99.8
				DS =	1996	MS =	563

Remarks: FFAB material specified compaction per Technical Specifications,
 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
 of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project:	Amaruq IVR D-1 Dike Q.C.	Test Apparatus:	Troxler	Troxler No:	33362
	Amaruq, NU	Specified Compaction:	98	% Std. Proctor Max. Dry Density	
Project No.:	704-ENG.EARC03222-01	Optimum Moisture (MC):	<i>in situ</i>		
Client:	Agnico Eagle Mines Ltd.	Temperature	Air:	-29 °C	Soil: - °C
Attention:	Jennifer Pyliuk	Date Tested:	March 25, 2021 Nightshift	By:	DY
Contractor:	KCB	Construction Period:	March 25, 2021 Nightshift		

Soil Description: Zone 2B (Fine Filter Amended with 6% Bentonite)

Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2038 kg/m³

[illegible]

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -22 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 26, 2021 Nightshift **By:** DY
Contractor: KCB **Construction Period:** March 26, 2021 Nightshift

Soil Description: Zone 2B (Fine Filter Amended with 6% Bentonite)

Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+105 to 0+130; key trench bottom Tested: Station 0+119; 10 m o/s from CL N: 7255529; E: 607879	159.60	2216	4.5	2121	100.5
2	200	Station 0+105 to 0+130; key trench bottom Tested: Station 0+109; 6 m o/s from CL N: 7255531; E: 607868	159.83	2209	4.8	2108	99.9
3	200	Station 0+105 to 0+130; key trench bottom Tested: Station 0+121; 7 m o/s from CL N: 7255526; E: 607879	159.88	2174	4.7	2076	98.3
4	200	Station 0+105 to 0+130; key trench bottom Tested: Station 0+110; 9 m o/s from CL N: 7255533; E: 607867	160.20	2170	4.8	2071	98.1
5	200	Station 0+105 to 0+130; key trench bottom Tested: Station 0+119; 11 m o/s from CL N: 7255530; E: 607879	160.24	2217	4.3	2126	100.7
6	200	Station 0+105 to 0+130; key trench bottom Tested: Station 0+112; 5 m o/s from CL N: 7255529; E: 607870	160.46	2198	4.9	2095	99.2
			Average =	2197	4.7	2100	99.5
				DS =	1989	MS =	574

Remarks: FFAB material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -25 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 27, 2021 Nightshift **By:** DY
Contractor: KCB **Construction Period:** March 27, 2021 Nightshift
Soil Description: Zone 2B (Fine Filter Amended with 6% Bentonite)
Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Station 0+095 to 0+105; key trench bottom Tested: Station 0+99; 7 m o/s from CL N: 7255538; E: 607860	160.20	2192	4.5	2098	99.4
2	200	Station 0+095 to 0+105; key trench bottom Tested: Station 0+100; 5 m o/s from CL N: 7255535; E: 607860	160.40	2192	4.7	2094	99.2
3	200	Station 0+095 to 0+105; key trench bottom Tested: Station 0+102; 6 m o/s from CL N: 7255535; E: 607862	160.60	2198	4.6	2101	99.5
4	200	Station 0+095 to 0+105; key trench bottom Tested: Station 0+102; 3 m o/s from CL N: 7255533; E: 607861	160.86	2179	4.3	2089	99.0
			Average =	2190	4.5	2096	99.3
				DS =	1985	MS =	573

Remarks: FFAB material specified compaction per Technical Specifications,
 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
 of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -29 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** March 28, 2021 Dayshift **By:** RO
Contractor: KCB **Construction Period:** March 28, 2021 Dayshift
Soil Description: Zone 2B (Fine Filter Ammended with 6% Bentonite)
Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	150	Station 0+128; at O.G. Offset 5.0 m upstream of CL N: 7255529.0 E: 607888.9	162.50	2235	4.4	2141	101.4
2	200	Station 0+124; depth of 0.25 above O.G. Offset 5.0 m upstream of CL N: 7255531.0 E: 607884.9	162.80	2220	5.3	2108	99.9
			Average =	2228	4.9	2125	100.6
				DS =	1985	MS =	573

Remarks: FFAB material specified compaction per Technical Specifications,
 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
 of 6 passes over the lift.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -41 °C **Soil:** - °C
Attention: Jennifer Pyluk **Date Tested:** March 29, 2021 Nightshift **By:** JRC
Contractor: KCB **Construction Period:** March 29, 2021 Nightshift

Soil Description: Zone 2b (Fine Filter Amended with Bentonite)

Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	100	Station 0+074; 3.9 m o/s from CL N:7255547 E:607837	161.1	2173	4.4	2081	98.6
2	200	Station 0+073.6; 3.6 m o/s from CL N:7255547.3 E:607837.2	161.3	2220	4.7	2120	100.4
3	200	Station 0+072.8; 2.1 m o/s from CL N:7255546.9 E:607835.2	161.6	2200	4.4	2107	99.8
4	200	Station 0+080; 1.0 m o/s from CL N:7255542 E:607849.3	161.7	2237	4.6	2139	101.3
5	150	Station 0+070; 5.5 m o/s from CL N:7255548 E:607836.3	161.9	2172	4.5	2078	98.4
6	200	Station 0+089; 3.7 m o/s from CL N:7255539.8 E:607849.8	161.6	2240	4.9	2135	101.1
7	200	Station 0+076.1; 2.5 m o/s from CL N:7255545.4 E:607838.4	161.9	2228	4.5	2132	101.0
			Average =	2210	4.6	2113	100.1
				DS =	1990	MS =	481

Remarks: FFAB material specified compaction per Technical Specifications,
668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
of 6 passes over the lift. Testing from station 0+065 to 0+090 at depth of 0.25 m.



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** *in situ*
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -10 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 15, 2021 Dayshift **By:** RO
Contractor: KCB **Construction Period:** April 15, 2021 Dayshift
Soil Description: Zone 2B (Fine Filter Ammended with 4% Bentonite)
Material Source: Zone 2A Stockpile mixed with Bentonite **Proctor:** 2111 kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % SPD
1	200	Underliner Station 0+522; 2.75 m BGL Offset 3.5 m downstream of CL N: 7255424.2 E: 608252.2	162.60	2181	4.8	2080	98.5
2	200	Underliner Station 0+523; 2.5 m BGL Offset 4.6 m downstream of CL N: 7255423.0 E: 608253.3	163.00	2126	4.2	2040	96.6
		Material compacted using the tamping plate due to inaccessibility with the drum roller.					
			Average =	2154	4.5	2060	97.6
				DS =	1967	MS =	581

Remarks: FFAB material specified compaction per Technical Specifications,
 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.2.1. Monitored minimum
 of 6 passes over the lift.



APPENDIX G-3C

**QC Laboratory Results – Zone 4
Esker Material**

COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 95 % Mod. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -15 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 18, 2021 **By:** DY
Contractor: KCB **Construction Period:** April 18, 2021 Nightshift

Soil Description: Esker (200 mm Minus) - Sand, silty, some gravel

Material Source: Stockpile on site **Proctor:** - kg/m³

Test No.	Probe (mm)	Location:	Depth to Grade (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % MPD
1	200	Sta. 0+194; 1st lift; 6 passes made	0.5	1560	9.0	1431	N/A
2	200	Sta. 0+194; 1st lift; 9 passes made	0.5	1725	8.0	1597	N/A
3	200	Sta. 0+194; 1st lift; 12 passes made	0.5	1657	10.1	1505	N/A
4	200	Sta. 0+204; 1st lift; 6 passes made	0.5	1629	9.6	1486	N/A
5	200	Sta. 0+204; 1st lift; 9 passes made	0.5	1796	9.4	1642	N/A
6	200	Sta. 0+204; 1st lift; 12 passes made	0.5	1701	11.3	1528	N/A
7	200	Sta. 0+212; 1st lift; 6 passes made	0.5	1921	7.6	1785	N/A
8	200	Sta. 0+212; 1st lift; 9 passes made	0.5	1893	6.6	1776	N/A
9	200	Sta. 0+212; 1st lift; 12 passes made	0.5	1662	9.8	1514	N/A
10	200	Sta. 0+250; 1st lift; 6 passes made	0.5	1698	9.7	1548	N/A
							N/A
			Average =	1724	9.1	1581	N/A
				DS =	1996	MS =	568

Remarks: Esker (200 mm Minus) material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.7.6



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 95 % Mod. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -13 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 18, 2021 **By:** DY
Contractor: KCB **Construction Period:** April 18, 2021 Nightshift

Soil Description: Esker (200 mm Minus) - Sand, silty, some gravel

Material Source: Stockpile on site **Proctor:** - kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % MPD
1	200	Sta. 0+281; 7255451N, 608018E; 2nd lift; 6 passes made	164.3	1611	12.6	1431	N/A
2	200	Sta. 0+301; 7255446N, 608037E; 2nd lift; 6 passes made	164.3	1758	10.1	1597	N/A
3	200	Sta. 0+286; 7255448N, 608021E; 3rd lift; 6 passes made	164.5	1631	8.4	1505	N/A
4	200	Sta. 0+306; 7255449N, 608036E; 3rd lift; 6 passes made	164.5	1721	11.6	1542	N/A
			Average =	1680	10.7	1519	N/A
				DS =	1996	MS =	568

Remarks: Esker (200 mm Minus) material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.7.6



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 95 % Mod. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -9 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 19, 2021 **By:** DY
Contractor: KCB **Construction Period:** April 19, 2021 Nightshift

Soil Description: Esker (200 mm Minus) - Sand, silty, some gravel
Material Source: Stockpile on site **Proctor:** - kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % MPD
1	200	Sta. 0+331; 7255447N, 608061E; 1st lift; 8 passes made	164.2	1852	9.0	1699	N/A
2	200	Sta. 0+330; 7255452N, 608061E; 2nd lift; 8 passes made	164.5	1659	10.9	1496	N/A
			Average =	1755	10.0	1598	N/A
				DS =	1988	MS =	572

Remarks: Esker (200 mm Minus) material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.7.6



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 95 % Mod. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -8 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 20, 2021 **By:** DY
Contractor: KCB **Construction Period:** April 20, 2021 Nightshift

Soil Description: Esker (200 mm Minus) - Sand, silty, some gravel

Material Source: Stockpile on site **Proctor:** - kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % MPD
1	200	Sta. 0+164; 7255514N, 607922E; 1st lift; 8 passes made	162.5	1697	9.4	1551	N/A
2	200	Sta. 0+180; 7255506N, 607935E; 1st lift; 8 passes made	162.5	1757	10.7	1587	N/A
			Average =	1727	10.1	1569	N/A
				DS =	1964	MS =	576

Remarks: Esker (200 mm Minus) material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.7.6



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
 Amaruq, NU **Specified Compaction:** 95 % Mod. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -9 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 21, 2021 **By:** RO
Contractor: KCB **Construction Period:** April 21, 2021 Dayshift

Soil Description: Loosely frozen esker (200 mm Minus) - Sand, silty, some gravel

Material Source: Mixed stockpile (east and west piles) **Proctor:** - kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % MPD
1	200	Zone 4 Sta. 0+165, Lift #1; 8 passes with vibratory smooth drum packer	162.5	1821	6.8	1705	N/A
2	200	Zone 4 Sta. 0+169, Lift #2; 8 passes with vibratory smooth drum packer	163.0	1877	9.2	1719	N/A
3	200	Zone 4 Sta. 0+138, Lift #1; 8 passes with vibratory smooth drum packer	163.0	1767	8.9	1623	N/A
			Average =	1822	8.3	1682	N/A
				DS =	1972	MS =	579

Remarks: Esiker (200 mm Minus) material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.7.6



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 95 % Mod. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** **Air:** -15 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 21, 2021 **By:** DY
Contractor: KCB **Construction Period:** April 21, 2021 Nightshift

Soil Description: Loosely frozen esker (200 mm Minus) - Sand, silty, some gravel

Material Source: Mixed stockpile (east and west piles) **Proctor:** - kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % MPD
1	200	Sta. 0+125; 7255529N, 607890E; 3rd lift; 8 passes made	163.5	1798	6.6	1687	N/A
2	200	Sta. 0+140; 7255519N, 607907E; 3rd lift; 8 passes made	163.5	1723	7.7	1600	N/A
3	200	Sta. 0+100; 7255541N, 607875E; 1st lift; 8 passes made	162.7	1810	8.2	1673	N/A
4	200	Sta. 0+102; 7255537N, 607877E; 2nd lift; 8 passes made	163.0	1762	7.9	1633	N/A
5	200	Sta. 0+175; 7255499N, 607937E; 4th lift; 8 passes made	164.0	1780	7.0	1664	N/A
6	200	Sta. 0+162; 7255500N, 607925E; 4th lift; 8 passes made	164.0	1792.5	8.9	1646	N/A
			Average =	1778	7.7	1651	N/A
				DS =	1972	MS =	579

Remarks: Esiker (200 mm Minus) material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.7.6

COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 95 % Mod. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -17 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 22, 2021 **By:** DY
Contractor: KCB **Construction Period:** April 22, 2021 Nightshift

Soil Description: Loosely frozen esker (200 mm Minus) - Sand, silty, some gravel

Material Source: Mixed stockpile (east and west piles) **Proctor:** - kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m ³)	MC %	Dry (kg/m ³)	Comp % MPD
1	200	Sta. 0+105; 7255541N, 607869E; 4th lift; 6 passes made	164.1	1709	10.5	1547	N/A
2	200	Sta. 0+125; 7255532N, 607883E; 4th lift; 6 passes made	164.1	1825	8.8	1677	N/A
3	200	Sta. 0+146; 7255526N, 607904E; 4th lift; 6 passes made	164.1	1701	9.5	1553	N/A
			Average =	1745	9.6	1592	N/A
				DS =	1972	MS =	579

Remarks: Esiker (200 mm Minus) material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.7.6



COMPACTION DENSITY TEST SUMMARY FORM

ASTM Designation D6938

Project: Amaruq IVR D-1 Dike Q.C. **Test Apparatus:** Troxler **Troxler No:** 33362
Amaruq, NU **Specified Compaction:** 95 % Mod. Proctor Max. Dry Density
Project No.: 704-ENG.EARC03222-01 **Optimum Moisture (MC):** in situ
Client: Agnico Eagle Mines Ltd. **Temperature** Air: -15 °C **Soil:** - °C
Attention: Jennifer Pyliuk **Date Tested:** April 23, 2021 **By:** DY
Contractor: KCB **Construction Period:** April 23, 2021 Nightshift

Soil Description: Loosely frozen esker (200 mm Minus) - Sand, silty, some gravel

Material Source: Mixed stockpile (east and west piles) **Proctor:** - kg/m³

Test No.	Probe (mm)	Location:	Elevation (m)	Wet (kg/m³)	MC %	Dry (kg/m³)	Comp % MPD
1	200	Sta. 0+190; 7255498N, 607940E; 4th lift; 8 passes made	164.5	1734	9.1	1589	N/A
2	200	Sta. 0+177; 7255509N, 607927E; 4th lift; 8 passes made	164.5	1736	7.8	1610	N/A
3	200	Sta. 0+105; 7255544N, 607869E; 2nd lift; 8 passes made	164.0	1752	9.2	1604	N/A
4	200	Sta. 0+095; 7255548N, 607862E; 2nd lift; 8 passes made	164.4	1776	9.9	1616	N/A
5	200	Sta. 0+101; 7255534N, 607863E; 3rd lift; 8 passes made	164.5	1918	10.6	1734	N/A
6	200	Sta. 0+121; 7255534N, 607878E; 4th lift; 8 passes made	164.5	1717	10.2	1558	N/A
7	200	Sta. 0+141; 7255520N, 607898E; 4th lift; 8 passes made	164.5	1675	10.8	1512	N/A
8	200	Sta. 0+161; 7255514N, 607916E; 2nd lift; 8 passes made	164.5	1772	10.2	1608	N/A
			Average =	1760	9.7	1604	N/A
				DS =	1985	MS =	567

Remarks: Esiker (200 mm Minus) material specified compaction per Technical Specifications, 668284-5000-40EF-0001 Rev0 (December 2020), Section 4.7.6

