APPENDIX D2

ENGINEERING CHANGE NOTICES (ECNS)





MELIADINE GOLD MINE PROJECT

AGNICO EAGLE

ENGINEERING CHANGE NOTICE

Contract No: OL-459893-L Contract Title: Block 007 - Water Management Infrastructure

Contractor: Tetra Tech EBA Inc. Date: 10-Nov-16

ECN No: 6515-C-235-007-ECN-

001_RA ECN Title: Revision 1 for Construction Specifications of D-CP1 and D-CP5

ECN Description:

We have updated the construction specifications (from Revision 0 into Revision 1) for D-CP1 and D-CP5 to include additional information for clarification:

- 1) Add a new section for dike instrumentation installation
- 2) Add additional details for material preparation and placement for Nearly-Saturated Backfill
- 3) Add additional details for liner QC/QA testing and reporting for the liner installation

Justification:

To add more details and increase clarifications for construction specifications of D-CP1 and D-CP5

List of Deleted, Revised or Added Documents (Add a page to list more if needed)

Item	Document Number	Rev
	6515-E-132-007-132-	
1	SPT-002	R1
	6515-E-132-007-132-	
1	SPT-003	R1

Item	Document Number	Rev

On Schedule:	Yes ☑ No □	On Cost: Yes ☑ No ☐	
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Action Record	TITLE	NAME	Signature	Date
Prepared by:	Package Engineer			
Reviewed by:	Lead Discipline	Duy Nguyen		
Accepted by:	Engineering Manager	Daniel Seguin		
Accepted by:	Project Manager	Jean Routhier		

Notes:

1	Contractor has 10 days to return the Impact on Cost (on the attached Price Breakdown) and Schedule	
2	Contractor is not to proceed with any work until authorized to do so	
Con	ntractor Acknowledment	
	Received by: Contractor Repres.	

Agnico Eagle Mines Limited: Meliadine Project 6515-C-235-007-MTX-001 Civil Works – Water Management

Attachments Forming Part of This Specification:

Section General Specification Section		Title of Section
6515-C-235-007-230-MTX- 001	R2	Documents and Drawings Index
6515-C-235-007-230-SOW- 001	R2	Summary of Work
6515-E-132-007-132-SPT- 002	R1 :	Specifications for Dike D-CP1
6515-E-132-007-132-SPT- 003	R1 :	Specifications for Dike D-CP5
6515-C-235-007-230-VDT- 001	R1 \	Vendor Data Requirements Table
Ctandard Datashast Castian		

Standard Datasheet Section

N/A

Standard Specification Section

Drawing No.	Rev. Title
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6515-GGD-03 R0 Site Information and Design Coefficients

6515-000-133-VDR-001 R0 Vendor Data Requirements

Drawings Forming Part of This Specification:

Drawing No.	Rev.	Title
65-685-230-204 65-685-230-205	R1 R1	D-CP1 GENERAL LOCATION PLAN D-CP1 KEY TRENCH AND DIKE LAYOUT PLAN
65-685-230-206	R1	D-CP1 PROFILES
65-685-230-207	R1	D-CP1 THERMAL COVER LAYOUT PLAN AND PROFILES
65-685-230-208	R1	D-CP1 TYPICAL SECTIONS AND QUANTITIES
65-685-230-209-01	R1	D-CP1 SECTIONS STATION 0+025 TO 0+200
65-685-230-209-02	R1	D-CP1 SECTIONS STATION 0+225 TO 0+400
65-685-230-209-03	R1	D-CP1 SECTIONS STATION 0+400 TO 0+575
65-685-230-210	R1	D-CP1 DOWNSTREAM WATER COLLECTION CHANNEL AND SUMP LAYOUT PLAN AND PROFILES
65-685-230-211	R1	D-CP1 INSTRUMENTATION PLAN AND DETAILS FOR GROUND TEMPERATURE CABLES D-CP1 INSTRUMENTATION PLAN AND DETAILS FOR GROUND
65-685-230-212	R1	TEMPERATURE CABLES AND SETTLEMENT SURVEY MONUMENT POINTS
65-685-230-213	R1	D-CP1 TYPICAL DETAILS
65-685-230-214	R0	D-CP5 GENERAL LOCATION PLAN
65-685-230-215	R0	D-CP5 KEY TRENCH AND DIKE LAYOUT PLAN

Documents and Drawings Index

Agnico Eagle Mines Limited: Meliadine Project 6515-C-235-007-MTX-001 Civil Works – Water Management

65-685-230-216	R0	D-CP5 PROFILES
65-685-230-217	R0	D-CP5 THERMAL COVER LAYOUT PLAN AND PROFILES
65-685-230-218	R0	D-CP1 TYPICAL SECTIONS AND QUANTITIES
65-685-230-219-01	R0	D-CP5 SECTIONS STATION 0+030 TO 0+170
65-685-230-219-02	R0	D-CP5 SECTIONS STATION 0+170 TO 0+310
65-685-230-220	R0	D-CP5 INSTRUMENTATION PLAN AND DETAILS FOR GROUND TEMPERATURE CABLES
65-685-230-221	R0	D-CP5 INSTRUMENTATION PLAN AND DETAILS FOR GROUND TEMPERATURE CABLES AND SETTLEMENT SURVEY MONUMENT POINTS
65-685-230-222	R0	D-CP5 TYPICAL DETAILS
65-000-230-212	R3	CIVIL WORKS 2016 – PLAN VIEW
65-417-230-207	RA	JETTY CP1 – PLAN / CROSS SECTION
65-417-230-208	RA	JETTY CP5 – PLAN / CROSS SECTION
65-695-265-200	R4	PUMPING STATION CP1 – PLAN, ELEVATION, DETAILS
65-695-265-203	R4	PUMPING STATION CP5 – PLAN, ELEVATION, DETAILS

2016-11-10	2	For review	G. Zhang	G. Zhang	G. Zhang	
2016-08- 26	1	For Review	M. Ricard	G. Zhang	G. Zhang	D. Nguyen
2016-06- 13	0	For Tender	M. Ricard	G. Zhang	G. Zhang	S. Guay
Date	Rev.	Status	Prepared By	Checked By	Approved By	Approved By
						Client

END OF SECTION



MELIADINE GOLD MINE PROJECT

AGNICO EAGLE

ENGINEERING CHANGE NOTICE

Contract No: OL-459893-L

Contract Title: Block 007 - Water Management Infrastructure

Contractor: Tetra Tech EBA Inc.

Date: 10-Nov-16

ECN No:

6515-C-235-007-ECN-

Design Change of Dike Liner Key-in Detail at Crest for D-CP1

002_RA

and D-CP5

ECN Description:

In the meeting with Luciano and Duy on October 28, 2016, Luciano suggested some changes to avoid sharp corners of the liner in anchoring the liner over the dike crest. As directed, we have prepared two drawings (see attached) to show the proposed design changes for your review:

ECN Title:

- 1) Proposed dike crest design change No.1 for D-CP1.
- 2) Proposed dike crest design change No.1 For D-CP5.

Justification:

As suggested by the extremal reviewer (Luciano), minor changes to the dike liner key-in at crest were made to avoid sharp corners of the liner in anchoring the liner over the dike crest.

List of Deleted, Revised or Added Documents (Add a page to list more if needed)

Item		Document Number	Rev
		Proposed Design	
	1	Change No1 for D-CP1	RA
		Proposed Design	
	1	Change No1 for D-CP5	RA

Item	m Document Number						
		·					

Potential	Impacts:
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On Schedule:

Yes ☑ No □

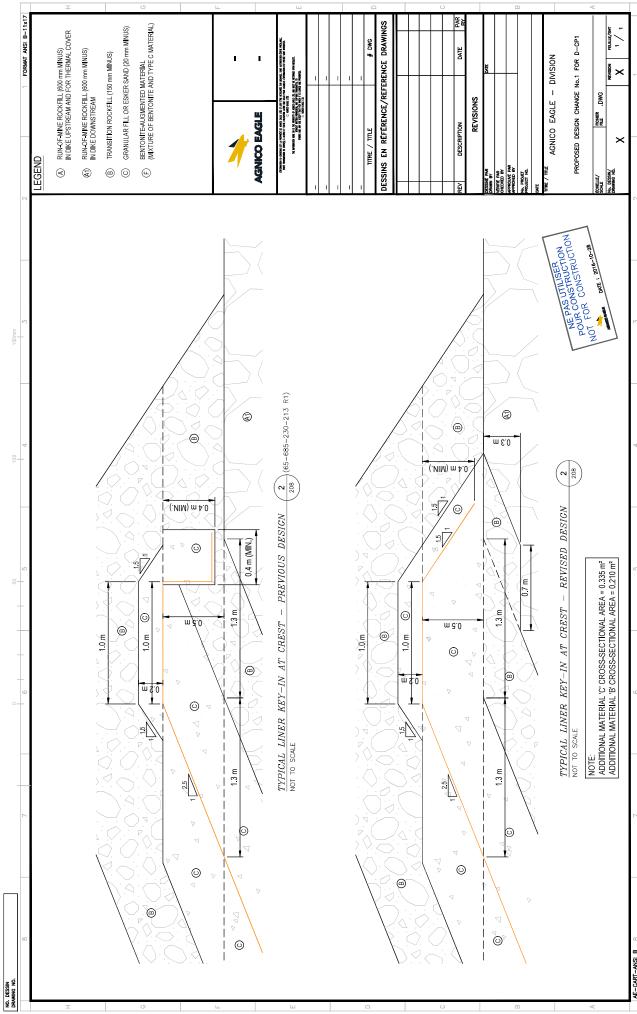
On Cost: Yes 🗹

No

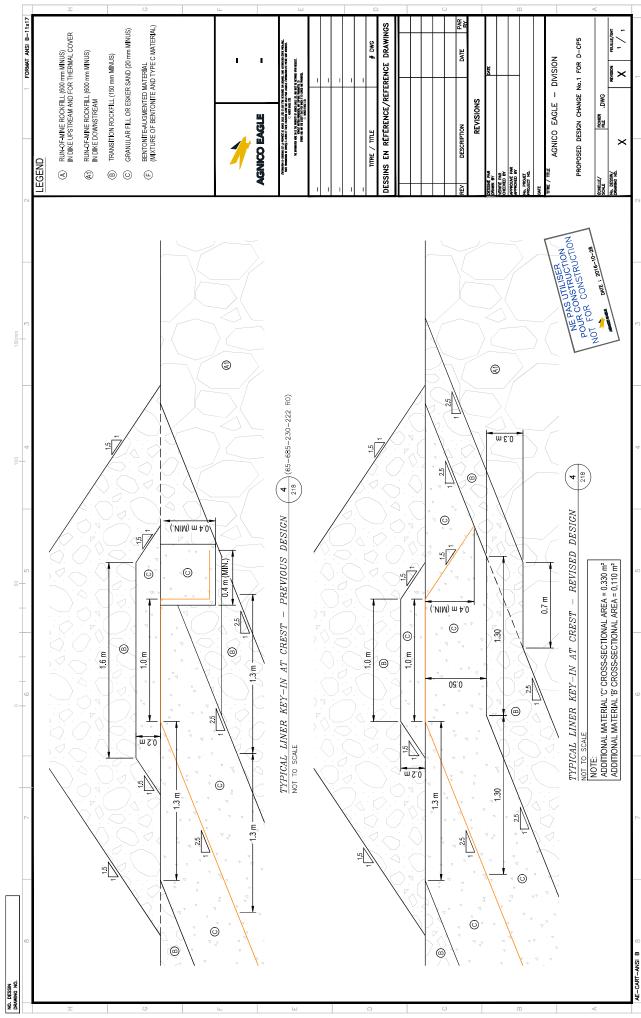
Action Record TITLE NAME Signature Date Prepared by: Package Engineer Gordon Zhang Commen NOV 14,2016 Reviewed by: Lead Discipline Duy Nguyen Duy Nguyen Accepted by: Engineering Manager **Daniel Seguin** Accepted by: Project Manager Marcel Beaudoin

ĮΝ	otes:
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1	ontractor has 10 days to return the Impact on Cost (on the attached Price Breakdown) and Schedule										
2	Contractor is not to proceed with any work until authorized to do so										
Con	tractor Acknowledgment										
	Received by: Contractor Repres.										



AE-CART-ANSI B 8
©.\Edmonton\Engineering\E141\Projects\E14103230_Block007_Melladine Detail Design\Wodelling\Production Drawings\D-OP1\Typical Liner Revision-For Discussion.dwg-2013-02-19 14:03:29



AE-CART-ANSI B 8
©.\Edmonton\Engineering\E141\Projects\E14103230_Block007_Melladine Detail Design\Wodelling\Production Drawings\D-0P8\Typical Liner Revision-For Discussion.dwg-2013-02-19 14:03:29



MELIADINE GOLD MINE PROJECT

AGNICO EAGLE

ENGINEERING CHANGE NOTICE

Dike Construction Support -Block 007 Water Management Contract No: OC-581138

Contract Title: Infrastructure

Contractor: Tetra Tech Canada Inc. Date: 17-Apr-17

6515-C-235-007-ECN-Design Change of Dike D-CP1 Over-Liner Bedding (replacing a ECN No:

003_R0 **ECN Title:** zone of Type C with Type F)

ECN Description:

The liner area with most risk is considered to be the area overlying the thickest section of the Type C fill within and above the upstream portion of the key trench. The winter-placed frozen Type C with low density and high ice content may undergo thaw settlement during dike operation. Excess settlement may distress or even locally rupture the liner above. Accordingly, Tetra Tech proposes to replace the highlighted zone (shown on the attached figure) of Type C with Type F (mix Type C and bentonite) over the liner area along the main portion of dike (not applied to top abutments) of D-CP1.

A draft sketch showing the proposed design change concept was submitted to Duy on March 30, 2017 for review. Follwing Duy's review and suggestion, a teleconfernce call was held to discuss the design change concept with the dike Advisor team (Luciano, Fiona, and Thomas) on April 3. The design change was finalized after the April 3 meeting and sent to Jack and Mark on the same day for comments on its impacts on construction schedule and cost. A meeting with Mark (AEM), the dike QA team (Jennifer and Fai), and Gordon was held in the morning of April 12 at the Meliadine site to discuss the proposed design change. The team concluded that this design change will have little or no impact on the construction schedule and result in only minor cost increase due to mixing the Type C with bentonite. Therefore, Mark directed the QA team (Fai and Jennifer) to inform the contractor to implement the design change on April 12 while a formal ECN is being prepared.

Justification:

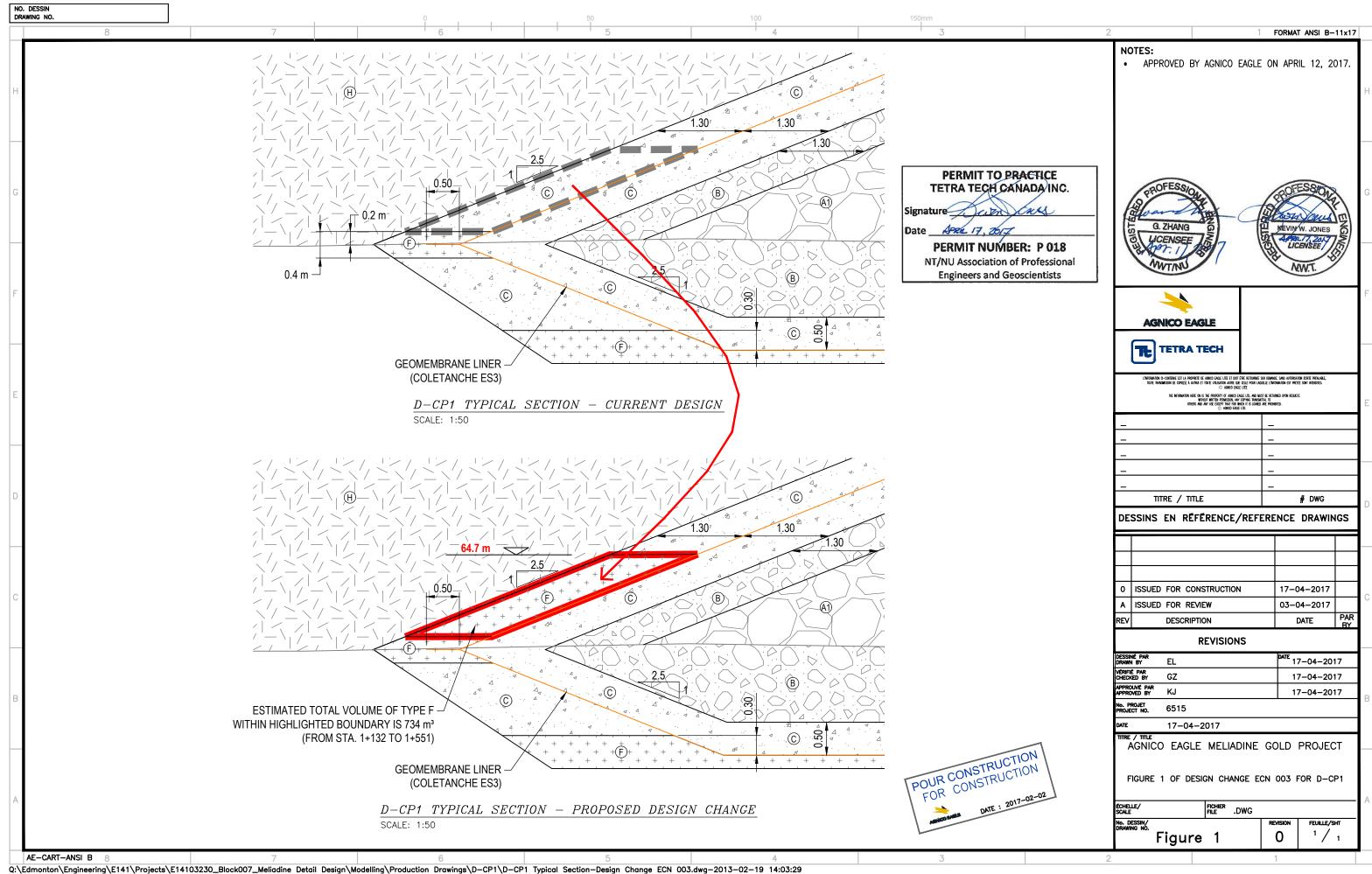
This design change will reduce the risk of potential seepage through the most critical liner area in D-CP1. This design change will have little or no impact on the construction schedule and result in only minor cost increase due to mixing the Type C with bentonite.

List of Deleted, Revised or Added Documents (Add a page to list more if needed)

Item	Document Number	Rev
	Figure 1 of Design	
	Change ECN 003 for D-	
1	CP1	RO
	\$1	

Item	Document Number	Rev
		,
	- 12	

Potent	ial Impacts:			2	
(On Schedule:	Yes 🗆 No 🛚	On Cos	t: Yes 🗹 No 🗆	
Act	tion Record	TITLE	NAME	Signature	Date
Pr	repared by:	Package Engineer	Gordon Zhang	Gumpre Zhang	17-Apr-17
Re	eviewed by:	Lead Discipline	Duy Nguyen		
Ad	ccepted by:	Engineering Manager	Daniel Seguin		
Ad	ccepted by:	Project Manager	Marcel Beaudoin		
Notes:					
1 Co	ntractor has	10 days to return the Impa	ct on Cost (on the attached	Price Breakdown) and Schedule	
2 Co	ntractor is no	ot to proceed with any wor	k until authorized to do so		
Contra	ctor Acknow	wledgment			
R	eceived by:	Contractor Repres.			



APPENDIX E1

TRANSITION MATERIAL PARTICLE SIZE ANALYSIS RESULTS



				PARTICLE SI			REPORT				
PROJECT:	Meliadine	Dik	e Co	nstruction	SAMPI			SA01			
					SAMPI	LE DESC	RIPTION:		n minus		
					_			from st	tockpile		
ADDRESS:	Meliadine	Go	d Pro	oject, NU.	_						
PROJECT N	O: <u>E1410323</u>	0-01	.023		MOIST	URE CO	NT.:		5.2%		
DATE SAMP	LED: Nov	09/1	6	By: TW	_						
CLIENT:	Agnico E	agle	Mine	es Ltd.	BULK	REL DEN	SITY:		n/a		
ATTENTION:	Mr. Duy N	lguy	en		BULK	REL. DEN	NSITY (SSD):		n/a		
					APPAR	RENT REL	DENSITY:		n/a		
					ABSO	RPTION:			n/a		
PARTICLE	PERCENT		100								
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Remarks:											
Reviewed by	, -					P.Enc	n				



				PARTICLE SIZ	ZE ANA	LYSIS I	REPORT		
PROJECT:	Meliadine	Dik	e Co	nstruction	SAMPL	LE NO:			SA02
					SAMPI	E DESC	CRIPTION:	150 mr	n minus
					_			from st	tockpile
ADDRESS:	Meliadine	Gol	d Pro	oject, NU.	_				
PROJECT N	O: E1410323	80-01	.023		MOIST	URE CO	NT.:		4.3%
DATE SAMP	LED: Nov	09/1	6	By: TW	_				
CLIENT:	Agnico E	agle	Mine	es Ltd.	BULK	REL DEN	NSITY:		n/a
ATTENTION:	Mr. Duy N	lguy	en		BULK	REL. DE	NSITY (SSD):		n/a
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					ABSO	RPTION:			n/a
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Reviewed by	<i>י</i> :					P.Er	ıq.		



				PARTICLE SIZ	ZE ANAI	LYSIS I	REPORT					
PROJECT:	Meliadine	Dik	e Co	nstruction	SAMPL	E NO:		SA03				
					SAMPL	E DESC	CRIPTION:	Type I	B - 150 mm Minus			
					•				ition Rock			
ADDRESS:	Meliadine	Gol	d Pro	oject, NU.				Sampl	led From Stockpile			
PROJECT N	O: E1410323				MOIST	URE CO	NT.:		1.3%			
DATE SAMP	LED: Nov	11/16	6	By: IM								
CLIENT:	Agnico E	agle	Mine	es Ltd.	BULK	REL DE	NSITY:		n/a			
ATTENTION:	: Mr. Duy N	lguy	en		BULK	REL. DE	NSITY (SSD):		n/a			
					APPAR	ENT RE	L. DENSITY:		n/a			
					ABSOF	RPTION:			n/a			
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Remarks:												
Reviewed by	/:					P.Er	 ng.					



				PARTICLE SIZ	ZE ANAI	LYSIS R	EPORT					
PROJECT:	Meliadine	Dik	e Co	nstruction	SAMPL	E NO:		SA04				
					SAMPL	E DESCI	RIPTION:	Type B	· 150 mm Minus			
					ı				on Rock			
ADDRESS:	Meliadine	Gol	d Pro	oject, NU.				Sample	d From Stockpile			
PROJECT N	O: E1410323				MOIST	URE CON	IT. :		2.8%			
DATE SAMP	LED: Nov	13/16	5	By: IM								
CLIENT:	Agnico E	agle	Mine	es Ltd.	BULK	REL DEN	SITY:	1	 n/a			
ATTENTION:					BULK	REL. DEN	SITY (SSD):		n/a			
					APPAR	ENT REL	. DENSITY:	\ <u></u>	n/a			
					ABSOF	RPTION:			n/a			
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Remarks:												
Remarks:												
Reviewed by	/:					P.Eng	J.					



PROJECT:	Meliadine	Dike	e Cor	struction	SAMF	PLE NO:					SA05	
					SAMF	PLE DES	CRIPT	ION:	Туре	B - 150	mm miı	านร
						Sam	npled fr	om stock	kpile			
ADDRESS:	Meliadine	Gol	d Pro	ject, NU.								
PROJECT N	O: E1410323	0-01	.023		— MOIS	TURE CO	NT.:				8.6%	
DATE SAMP	LED: Dec	15/16	i	By: CC								
CLIENT:	Agnico E	agle	Mine		— BULK	REL DE	NSITY:	:			n/a	
ATTENTION					— BULK	REL. DE	NSITY	(SSD):			n/a	
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Remarks:												



PROJECT: Meliadine Dike Co		Dike	ike Construction			SAMI	SAMPLE NO:					SA06				
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						_	Sa	ampled	from stoc	kpile						
ADDRESS:	Meliadine	Gol	d Proj	ect, NU	l.	_										
PROJECT NO	D: E1410323	0-01	.023			MOIS			8.1%							
DATE SAMP	LED: Mar	01/17		By:	TW	_										
CLIENT:	Agnico E	agle	Mines	Ltd.		- BULK	REL D	ENSIT	Y :			n/a				
ATTENTION:						- BUL	REL. [DENSIT	Y (SSD):			n/a				
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Remarks:																



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	'					Sampled from stock								
ADDRESS:	Meliadine	Gol	d Pro	ject, NU.										
PROJECT N	O: E1410323			-	MOIS	TURE CO	ONT.:				8.7%			
DATE SAMP	LED: Mar	01/17		By: TW	_									
CLIENT:	Agnico E	agle	Mine	s Ltd.	– BULK	REL DE	NSITY	:			n/a			
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PROJECT:	Meliadine	e Dike	e Cor	struction	SAMF	LE NO:					SA08	
					SAMF	LE DES	CRIPT	ION:	Тур	B - 15	0 mm m	inus
					_	San						
ADDRESS:	Meliadine	e Gol	d Pro	ject, NU.								
PROJECT N	O: E1410323	30-01	.023		MOIS	TURE CO	ONT.:				7.2%	
DATE SAMP	LED: Mar	02/17	,	By: TW	_							
CLIENT:	Agnico E	agle	Mine	s Ltd.	_ BULK	REL DE	NSITY	:			n/a	
ATTENTION	Mr. Duy I	Nguy	en		_ BULK	REL. DE	ENSITY	(SSD):			n/a	
						RENT RE		-			n/a	
					_	RPTION			n/a			
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			O	0.2	0.63	.25	2.5	5 01	5.5	25	50	100 150 200
				0.3	0.	_		ZE (mm)	-			0
								,				
Remarks:												



PROJECT:	Meliadine	Dike	Cons	struction	1	SAMF	LE NO				,	SA09	
						SAMF	LE DE	SCRIP	TION:	Туре	B1 - 1	50 mm r	ninus
							Sa	ampled	from Key				
ADDRESS:	Meliadine	Gol	d Proj	ect, NU.									
PROJECT NO:	E1410323	0-01.	023			MOIS	TURE C	ONT.	:			6.1%	
DATE SAMPLE	D: Mar :	29/17		By: I	M/TW								
CLIENT:	Agnico E	agle	Mines			BULK	REL D	ENSIT	Y :			n/a	
ATTENTION:	Mr. Duy N	lguye	en			BULK	REL. D	ENSIT	Y (SSD):			n/a	
						APPA	RENT F	REL. D	ENSITY:			n/a	
						ABSC	RPTIO	N:				n/a	
	ERCENT		100 _	Т									
SIZE F	PASSING												i
150	100		90									 	
100	95		80 -										/
50	63		00									//	/
20	22		70									// /	1
10	11	l o									/	/ /	
5	4	PERCENT PASSING	60										
		PAS	50 -								/	///	
										/ /		/	
			40							-/-		/	
		=	30 -							/			
+			30										
			20						/-		<u> </u>		
									/	//			
			10							/			
			0							/			
				0.2	0.315	0.63	.25	2.5	5 01	20	25	50	120
					0	0	~		SIZE (mm)	~			- - (
									. ,				
Remarks:													

liable, for use made of this report by any other party, with or without the knowledge of Tetra Tech EBA.

Data presented hereon is for the sole use of the stipulated The testing services reported herein have been performed by an Tetra Tech EBA technician to recognized industry client. Tetra Tech EBA is not responsible, nor can be held standards, unless otherwise noted. No other warranty is made. These data do not include or represent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, Tetra Tech EBA will provide it upon written request.



			P	ARTICLE SIZ	E ANAL	YSIS I	REPO	RT					
PROJECT:	Meliadin	e Dike	e Con	struction	SAMPLI	E NO:					SA10		
					SAMPLI	E DESC	CRIPTIO	ON:	Тур	e B1 - 1	150 mr	n minus	<u>; </u>
						Sam	pled fro	m Key	Trenc	h Stn. 0	+455 a	at O.G. e	lev.
ADDRESS:	Meliadin	e Gol	d Pro	ject, NU.									
PROJECT NO	D: <u>E141032</u>	30-01	.023		MOISTU	IRE CO	NT. :				6.1%		
DATE SAMP	LED: Mar	30/17	,	By: TW/WW									
CLIENT:	Agnico E	agle	Mines	s Ltd.	BULK R	EL DEN	NSITY:				n/a		
ATTENTION:					BULK R	EL. DE	NSITY	(SSD):			n/a		
					APPARI			-			n/a		
					ABSOR	PTION:				n/a			
PARTICLE	PERCENT		100 г					Г					
SIZE	PASSING											///	
450			90									<i>i </i>	-
150	100	H									/	[] / /	
100 50	93 58	H	80								1	/ /	
20	20	11	70								//	/	_
10	12	<u> </u>									/ /	/	
5	6	PERCENT PASSING	60							/		/	-
		- AS	50							/	/ /		
			30						/	1 /	<u> </u>		
		SS	40						/	/-			_
		"							/		/		
			30							1/			+
		H	20					/		<u>/</u>			
		H						/					
		11	10						/				-
		11							/				
		11	0 I	2		וט ו	. i	v 6	rċ	20 - 25 -	20	100	
				0.2	0.63	_			12.5	NN	LO I	, 10 15	200
						PARTI	CLE SIZ	⊨ (mm)					
Remarks:													
Reviewed by	<u>, </u>					P.En	na						



PROJECT: Meliadine Dike 0		Dike Construction			SAME		SA11							
						SAME	LE DE	SCRIP	TION:	Туре	B1 - 1	50 mm	minus	<u>; </u>
						_	Sa	ampled	from stoc	kpile				
ADDRESS:	Meliadine	Gol	d Proj	ect, NU		_								
PROJECT NO	D: E1410323	30-01	.023			MOIS	TURE C	ONT. :	ļ			6.5%		
DATE SAMPI	LED: Apr ()2/17		By:	ww	_								
CLIENT:	Agnico E					BULK	REL D	ENSIT	Y:			n/a		
ATTENTION:						BULK	REL. D	ENSIT	Y (SSD):			n/a		
						-			ENSITY:			n/a		
						ABSC	RPTIO	N:				n/a		
														_
PARTICLE	PERCENT		100										, 7	
SIZE	PASSING												/ //	
150	100		90							+		 	1 /	
100	90		80									//	<u> </u>	
50	46		50									/ /	$/ \top$	
20	16		70									/ /	1	
10	9	(3									/	/ 		
5	6	PERCENT PASSING	60								/	-// /		_
		PAS	50								/			
										/ /		//		
		ERC!	40											
		=	20							/				
			30						/		/			
			20								//			
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			10							/				
										/				
			~	(0.3	0.63	1.25	2.5	5 10	2.5	25	50	00	
<u> </u>				(0.0	0			SIZE (mm)	-				c
									. ,					
Remarks:														



Sample No.	Date Tested	Moisture Content (%)	Sample Source
SA01	9-Nov-16	5.2	Sampled from Type B1 stockpile
SA02	9-Nov-16	4.3	Sampled from Type B1 stockpile
SA03	11-Nov-16	1.3	Sampled from Type B1 stockpile
SA04	13-Nov-16	2.8	Sampled from Type B1 stockpile
SA05	19-Dec-16	8.6	Sampled from Type B1 stockpile
SA06	1-Mar-17	8.1	Sampled from Type B stockpile
SA07	1-Mar-17	8.7	Sampled from Type B stockpile
SA08	2-Mar-17	7.2	Sampled from Type B stockpile
SA09	29-Mar-17	6.1	Sampled from Type B1 stockpile
SA10	30-Mar-17	6.1	Sampled from Type B1 stockpile
SA11	2-Apr-17	6.5	Sampled from Type B1 stockpile

Average Moisture Content	5.9%