

APPENDIX F

PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station

Project No.: Y22101286

Client: PWGSC Edmonton

Attention: Michael Bernardin

Date Tested: Sept 13-14, Oct.11, 2012

Sample ID: TP01-S01 -- Landfill 3

Depth: 0.0-1.1 m

Soil Index:

Lab Number: 5711

Soil Description: SAND, silty, trace clay

Natural Moisture Content: 5.3%

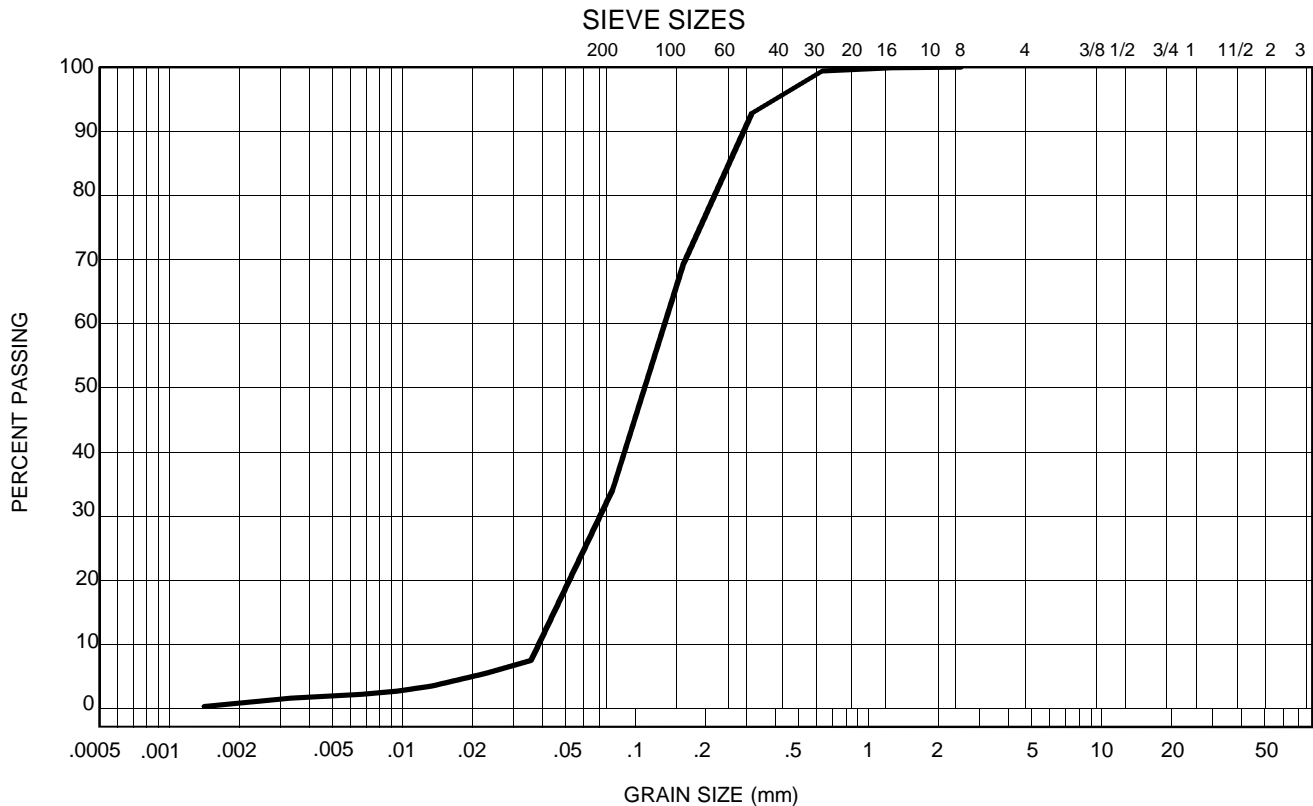
Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	
25	
20	
16	
12.5	
10	
5	
2.5	
1.25	100
0.63	99
0.315	93
0.16	69
0.08	34

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.

** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



Reviewed By: _____ *Lck*

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ASTM C136 & D422

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	
25	
20	
16	
12.5	
10	100
5	99
2.5	99
1.25	97
0.63	92
0.315	78
0.16	57
0.08	28

** The soil description is visually based, subject to EBA description protocols.

Reviewed By: _____



PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station
 Project No.: Y22101286
 Client: PWGSC Edmonton
 Attention: Michael Bernardin
 Date Tested: Sept 13-14, 2012
 Sample ID: PH03-S03 -- Landfill 3
 Depth: 0.0-1.3 m
 Soil Index:
 Lab Number: 5711
 Soil Description: SAND, trace gravel, trace fines
 Natural Moisture Content: 1.7%
 Remarks: Blended composite sample taken using a soil auger.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	
25	100
20	99
16	98
12.5	98
10	98
5	97
2.5	96
1.25	93
0.63	67
0.315	25
0.16	11
0.08	4

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.
 ** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



Reviewed By: Lck

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PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station

Project No.: Y22101286

Client: PWGSC Edmonton

Attention: Michael Bernardin

Date Tested: Sept 13-14, 2012

Sample ID: TP04-S04 -- Landfill 2

Depth: 0.25-1.0 m

Soil Index:

Lab Number: 5711

Soil Description: SAND, some silt, trace gravel

Natural Moisture Content: 4.9%

Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	100
25	98
20	97
16	97
12.5	97
10	95
5	93
2.5	91
1.25	88
0.63	79
0.315	57
0.16	33
0.08	17

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.

** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



Reviewed By: *Lck*

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PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station

Project No.: Y22101286

Client: PWGSC Edmonton

Attention: Michael Bernardin

Date Tested: Sept 13-14, 2012

Sample ID: PH05-S05 -- Landfill 2

Depth: 0.0 - 0.9 m

Soil Index:

Lab Number: 5711

Soil Description: SAND, silty, trace gravel

Natural Moisture Content: 5.4%

Remarks: Blended composite sample taken using a soil auger.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	
25	
20	
16	
12.5	
10	100
5	99
2.5	98
1.25	96
0.63	88
0.315	69
0.16	48
0.08	26

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.

** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



Reviewed By: Kck

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PARTICLE SIZE ANALYSIS TEST REPORT

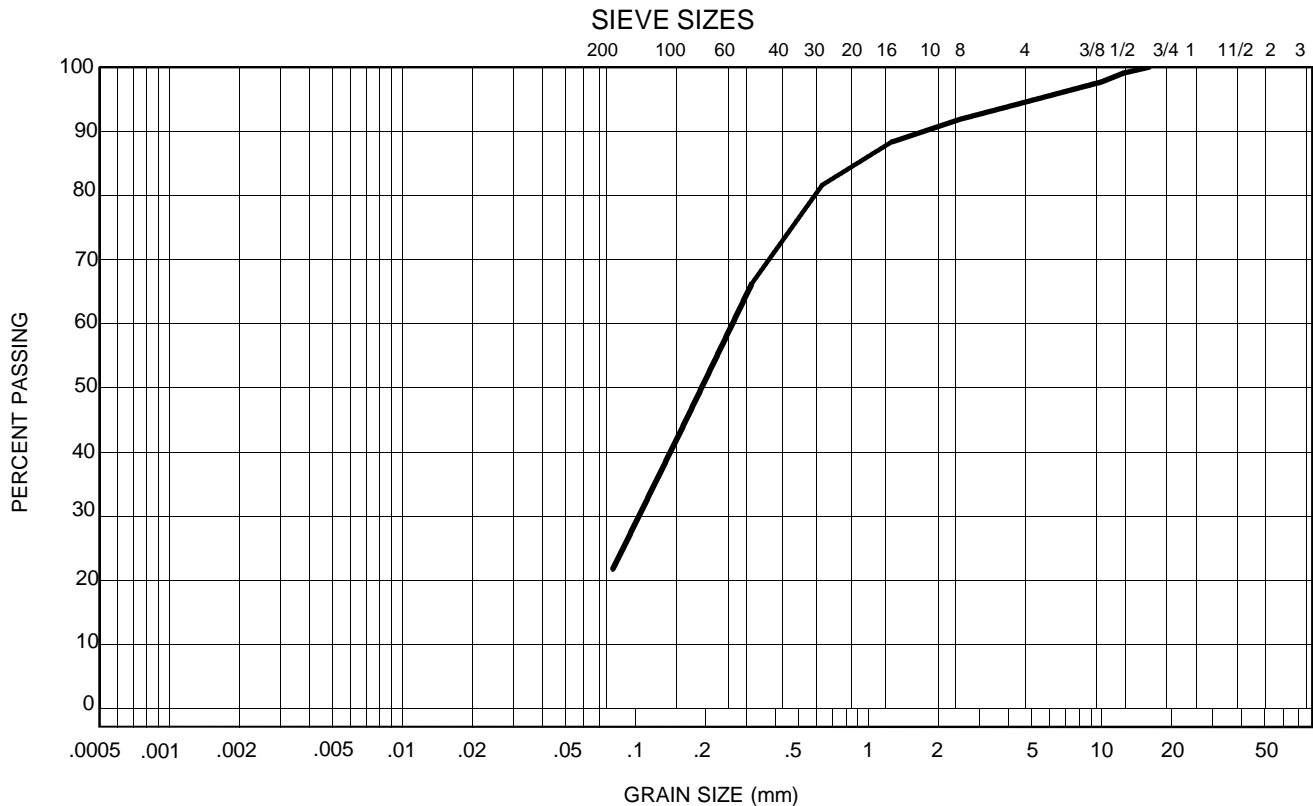
ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station
 Project No.: Y22101286
 Client: PWGSC Edmonton
 Attention: Michael Bernardin
 Date Tested: Sept 13-14, 2012
 Sample ID: PH06-S06 -- Landfill 2
 Depth: 0.0-1.0 m
 Soil Index:
 Lab Number: 5711
 Soil Description: SAND, silty, trace gravel
 Natural Moisture Content: 6.5%
 Remarks: Blended composite sample taken using a soil auger.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	
25	
20	
16	100
12.5	99
10	98
5	95
2.5	92
1.25	88
0.63	82
0.315	66
0.16	44
0.08	22

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.
 ** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



Reviewed By: _____ *Lik* _____

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ASTM C136 & D422

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	
25	
20	
16	100
12.5	99
10	98
5	93
2.5	89
1.25	81
0.63	67
0.315	38
0.16	8
0.08	1

** The soil description is visually based, subject to EBA description protocols.

Reviewed By: _____

PARTICLE SIZE ANALYSIS TEST REPORT

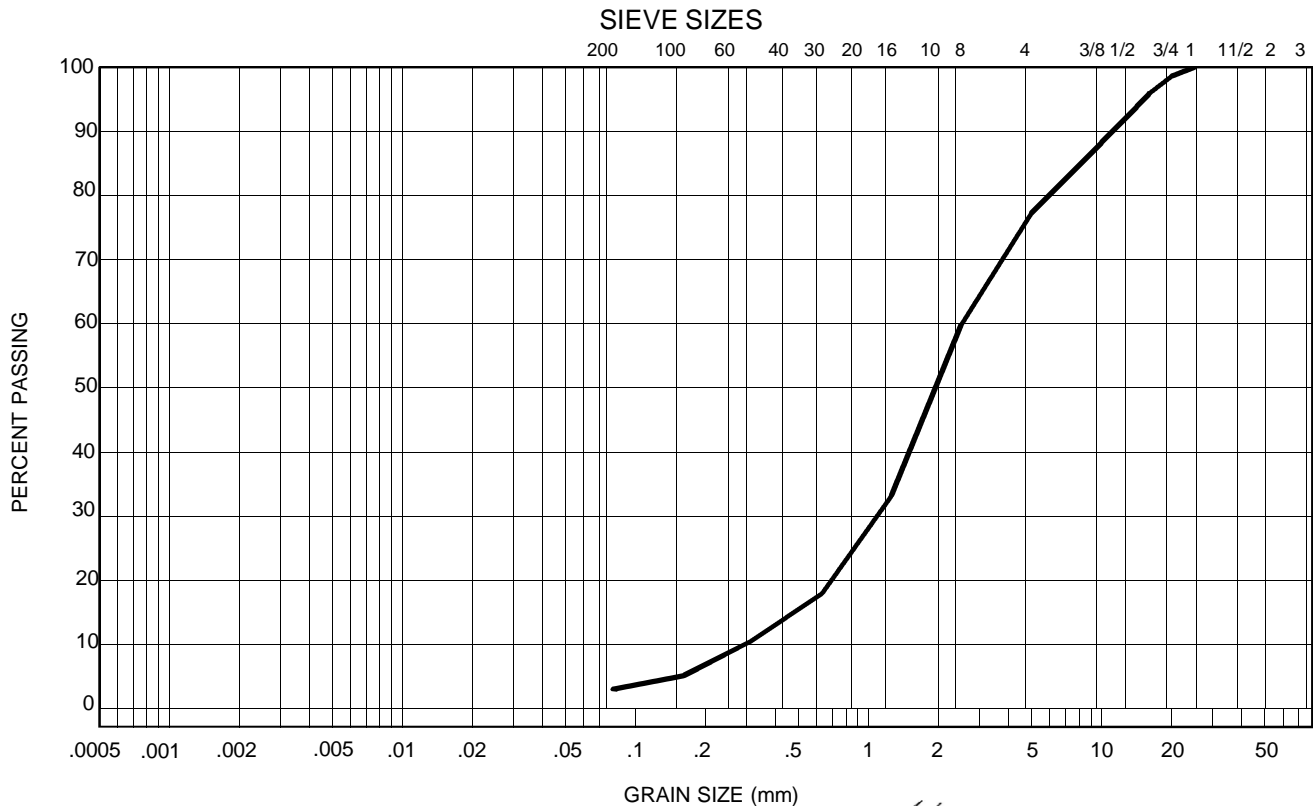
ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station
 Project No.: Y22101286
 Client: PWGSC Edmonton
 Attention: Michael Bernardin
 Date Tested: Sept 13-14, 2012
 Sample ID: TP08-S08 -- Borrow 1
 Depth: 0.0-0.5 m
 Soil Index:
 Lab Number: 5711
 Soil Description: SAND, gravelly, trace fines
 Natural Moisture Content: 2.0%
 Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	
25	100
20	99
16	96
12.5	92
10	88
5	77
2.5	60
1.25	33
0.63	18
0.315	11
0.16	5
0.08	3

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.
 ** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



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PARTICLE SIZE ANALYSIS TEST REPORT

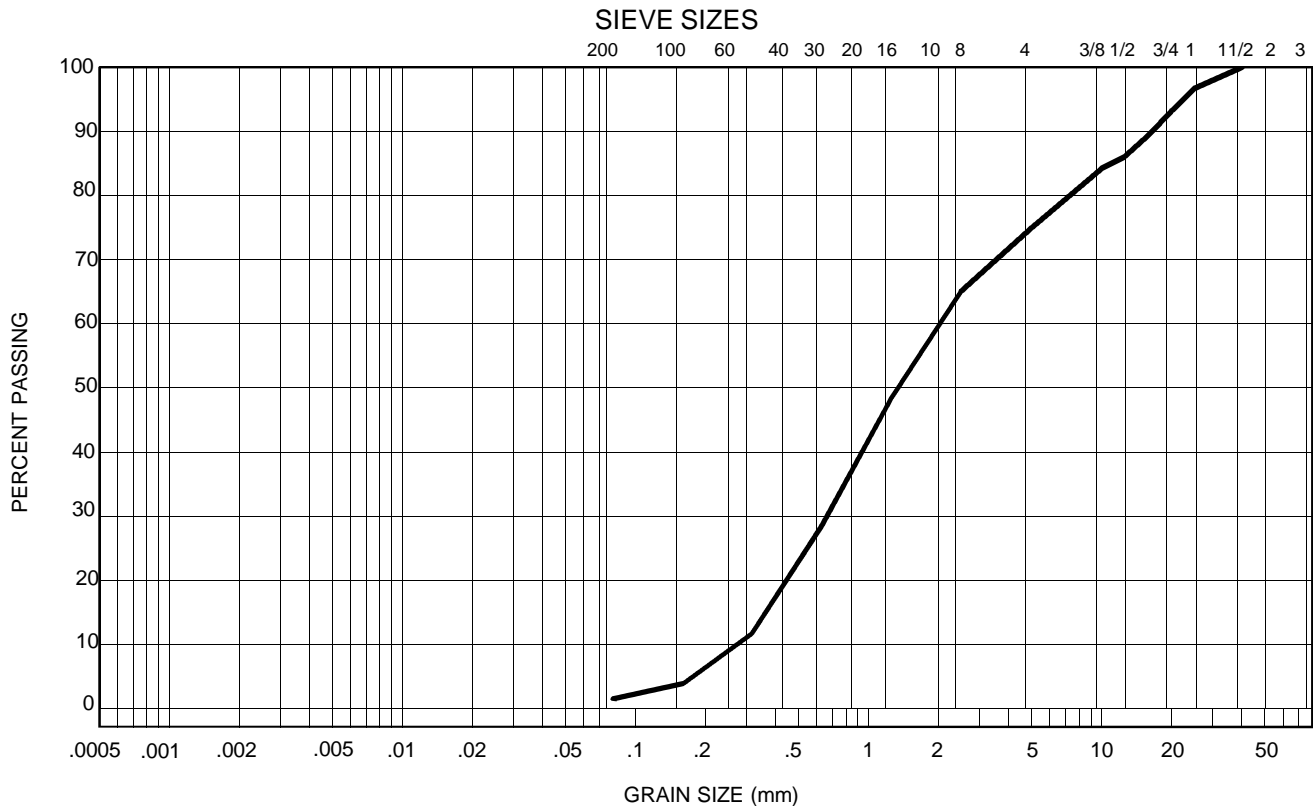
ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station
 Project No.: Y22101286
 Client: PWGSC Edmonton
 Attention: Michael Bernardin
 Date Tested: Sept 20-21, 2012
 Sample ID: TP9-S9 -- Borrow 1
 Depth: 0.0-0.5 m
 Soil Index:
 Lab Number: 5711
 Soil Description: SAND, gravelly, trace fines
 Natural Moisture Content: 2.7%
 Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	100
25	97
20	93
16	90
12.5	86
10	84
5	75
2.5	65
1.25	48
0.63	29
0.315	12
0.16	4
0.08	1

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.
 ** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



Reviewed By: _____ *Lik* _____

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PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station
 Project No.: Y22101286
 Client: PWGSC Edmonton
 Attention: Michael Bernardin
 Date Tested: Sept 17-18, 2012
 Sample ID: TP10-S10 -- Borrow 1
 Depth: 0.0-0.5 m
 Soil Index:
 Lab Number: 5711
 Soil Description: SILT & SAND
 Natural Moisture Content: 8.4%
 Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	
25	
20	
16	
12.5	
10	
5	
2.5	
1.25	100
0.63	99
0.315	99
0.16	90
0.08	54

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.

** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



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PARTICLE SIZE ANALYSIS TEST REPORT

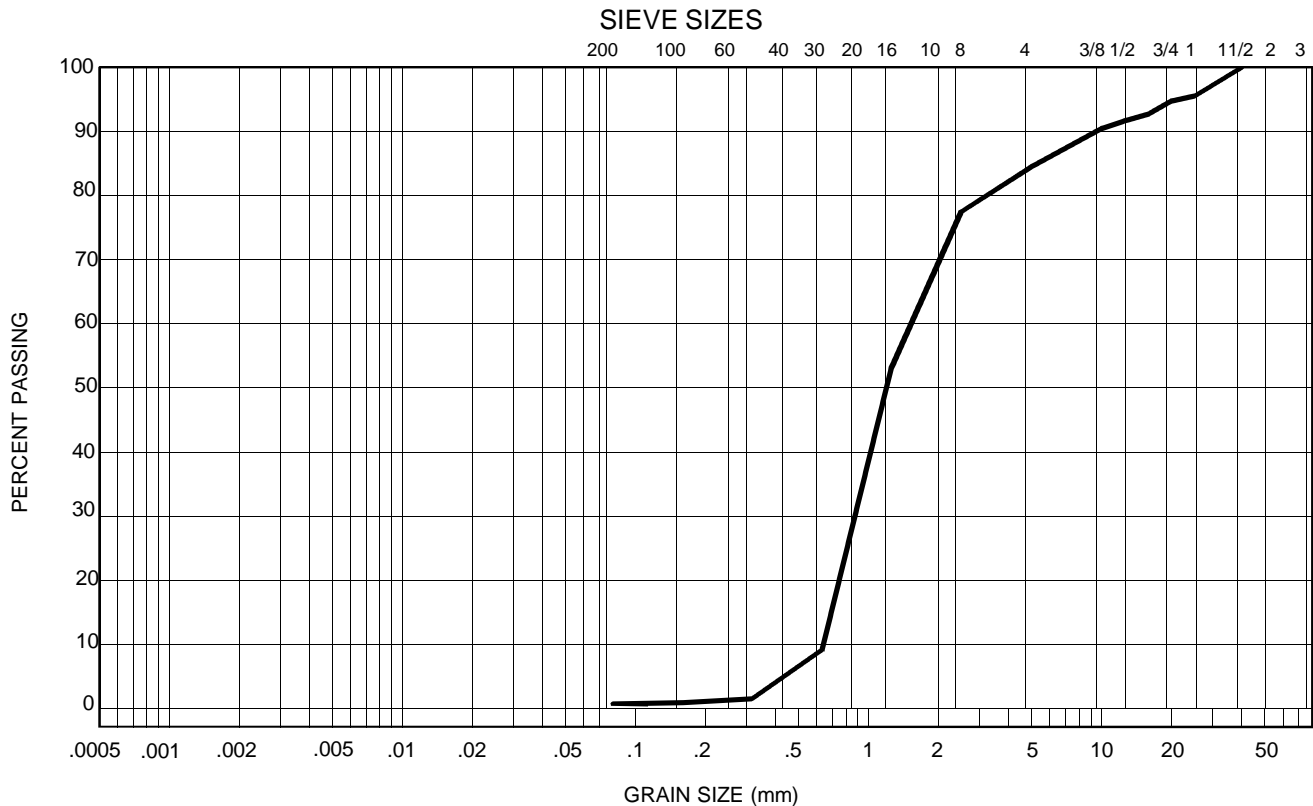
ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station
 Project No.: Y22101286
 Client: PWGSC Edmonton
 Attention: Michael Bernardin
 Date Tested: Sept 18-19, 2012
 Sample ID: TP12-S12 -- Borrow 4
 Depth: 0.0-0.5 m
 Soil Index:
 Lab Number: 5711
 Soil Description: SAND, some gravel, trace fines
 Natural Moisture Content: 1.5%
 Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	100
25	96
20	95
16	93
12.5	92
10	90
5	84
2.5	78
1.25	53
0.63	9
0.315	1
0.16	1
0.08	1

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.
 ** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



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SIEVE SIZE (mm)	PERCENTAGE PASSING
40	78
25	66
20	63
16	58
12.5	54
10	51
5	43
2.5	37
1.25	31
0.63	24
0.315	16
0.16	10
0.08	6

** The soil description is visually based, subject to EBA description protocols.

Reviewed By:_____

PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station
 Project No.: Y22101286
 Client: PWGSC Edmonton
 Attention: Michael Bernardin
 Date Tested: Sept 20-21, 2012
 Sample ID: TP14-S14 -- Landfarm 1 & Borrow 7
 Depth: 0.0-0.5 m
 Soil Index:
 Lab Number: 5711
 Soil Description: SAND, gravelly, some fines
 Natural Moisture Content: 4.3%
 Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	100
25	99
20	94
16	90
12.5	87
10	83
5	71
2.5	62
1.25	50
0.63	40
0.315	29
0.16	21
0.08	14

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.
 ** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



Reviewed By: Lck

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PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station

Project No.: Y22101286

Client: PWGSC Edmonton

Attention: Michael Bernardin

Date Tested: Sept 20-21, 2012

Sample ID: TP15-S15 -- Borrow 2

Depth: 0.0-0.5 m

Soil Index:

Lab Number: 5711

Soil Description: GRAVEL & SAND, trace fines

Natural Moisture Content: 2.3%

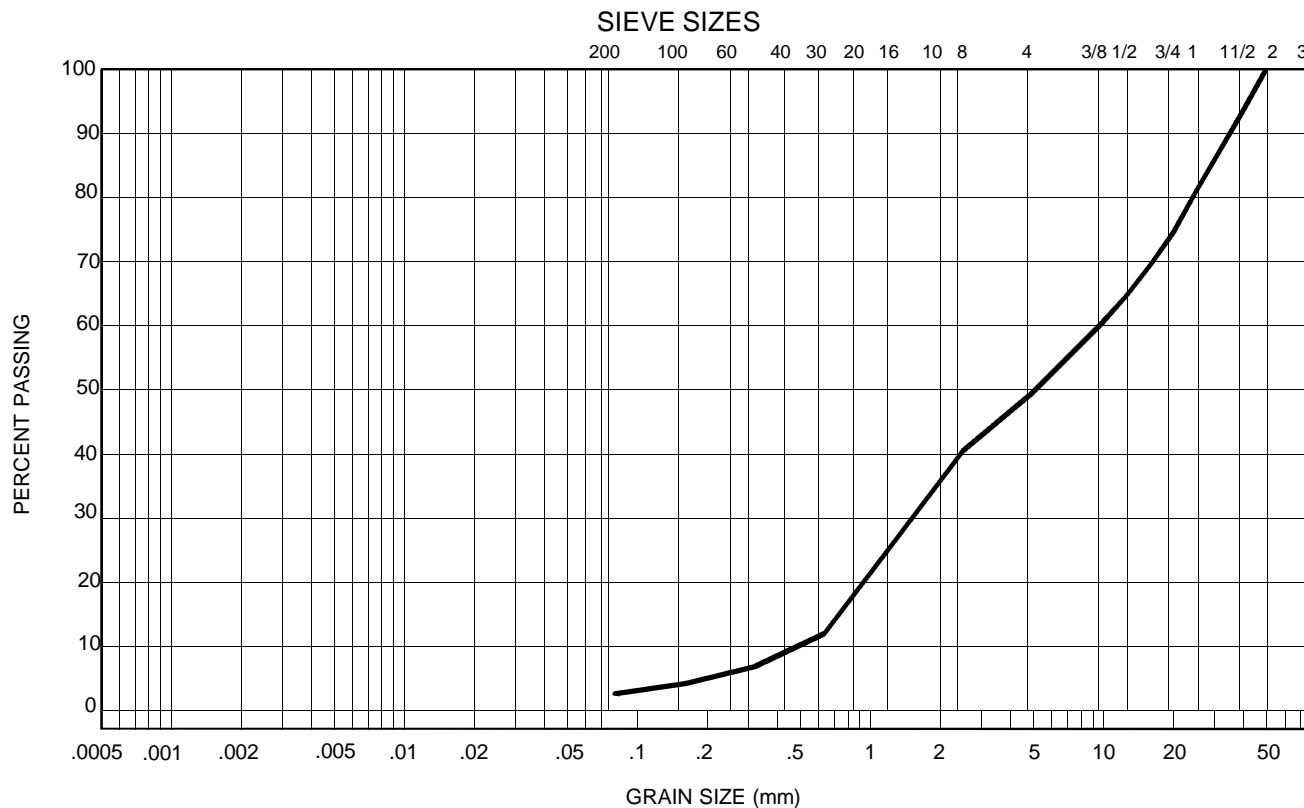
Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	94
25	81
20	75
16	70
12.5	65
10	61
5	50
2.5	41
1.25	26
0.63	12
0.315	7
0.16	4
0.08	3

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.

** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



Reviewed By: Kck

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PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station
 Project No.: Y22101286
 Client: PWGSC Edmonton
 Attention: Michael Bernardin
 Date Tested: Sept 20-21, 2012
 Sample ID: TP16-S16 -- Borrow 2
 Depth: 0.0-0.5 m
 Soil Index:
 Lab Number: 5711
 Soil Description: GRAVEL & SAND, trace fines
 Natural Moisture Content: 2.6%
 Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	98
25	89
20	82
16	79
12.5	75
10	72
5	62
2.5	52
1.25	33
0.63	14
0.315	8
0.16	6
0.08	4

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.
 ** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



Reviewed By: *Kik*

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PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station
 Project No.: Y22101286
 Client: PWGSC Edmonton
 Attention: Michael Bernardin
 Date Tested: Sept 17-18, 2012
 Sample ID: TP19-S19 -- Borrow 6
 Depth: 0-0.5 m
 Soil Index:
 Lab Number: 5711
 Soil Description: GRAVEL & SAND, trace fines
 Natural Moisture Content: 2.3%
 Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	100
25	86
20	81
16	77
12.5	74
10	71
5	59
2.5	44
1.25	23
0.63	8
0.315	5
0.16	4
0.08	3

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.
 ** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



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PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station

Project No.: Y22101286

Client: PWGSC Edmonton

Attention: Michael Bernardin

Date Tested: Sept 17-18, 2012

Sample ID: TP20-S20 -- Borrow 6

Depth: 0-0.5 m

Soil Index:

Lab Number: 5711

Soil Description: SAND & GRAVEL, trace fines

Natural Moisture Content: 1.7%

Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	100
25	93
20	90
16	87
12.5	83
10	80
5	64
2.5	38
1.25	15
0.63	7
0.315	4
0.16	3
0.08	2

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.

** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



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PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station

Project No.: Y22101286

Client: PWGSC Edmonton

Attention: Michael Bernardin

Date Tested: Sept 19-20, 2012

Sample ID: Geotech 1 -- Borrow 5

Depth: 0.0-0.5 m

Soil Index:

Lab Number: 5711

Soil Description: SAND, trace fines

Natural Moisture Content: 2.5%

Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	
25	
20	
16	
12.5	
10	
5	
2.5	
1.25	100
0.63	99
0.315	76
0.16	11
0.08	1

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.

** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



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PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station
 Project No.: Y22101286
 Client: PWGSC Edmonton
 Attention: Michael Bernardin
 Date Tested: Sept 19-20, 2012
 Sample ID: Geotech 2 -- Borrow 5
 Depth: 0.0-0.5 m
 Soil Index:
 Lab Number: 5711
 Soil Description: SAND, gravelly, trace fines
 Natural Moisture Content: 2.0%
 Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	97
25	93
20	90
16	86
12.5	83
10	80
5	73
2.5	64
1.25	45
0.63	21
0.315	8
0.16	3
0.08	2

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.

** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



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PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station

Project No.: Y22101286

Client: PWGSC Edmonton

Attention: Michael Bernardin

Date Tested: Sept 19-20, 2012

Sample ID: Geotech 3 -- Borrow 5

Depth: 0.0-0.5 m

Soil Index:

Lab Number: 5711

Soil Description: SAND, silty

Natural Moisture Content: 6.6%

Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	
25	
20	
16	
12.5	
10	
5	
2.5	
1.25	
0.63	100
0.315	98
0.16	72
0.08	27

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.

** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



Reviewed By: *Kick*

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ASTM C136 & D422

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	
25	
20	
16	
12.5	100
10	99
5	98
2.5	95
1.25	86
0.63	63
0.315	20
0.16	3
0.08	1

** The soil description is visually based, subject to EBA description protocols.

Reviewed By: _____



PARTICLE SIZE ANALYSIS TEST REPORT

ASTM C136 & D422

Project: Phase 3 ESA & RAP Ennadai Lake Weather Station
 Project No.: Y22101286
 Client: PWGSC Edmonton
 Attention: Michael Bernardin
 Date Tested: Sept 18-19, 2012
 Sample ID: Geotech 5 --Landfill 4 & Borrow 5
 Depth: 0-0.5 m
 Soil Index:
 Lab Number: 5711
 Soil Description: SAND, trace gravel, trace fines
 Natural Moisture Content: 2.5%
 Remarks: Blended composite sample taken from side wall of testpit.

SIEVE SIZE (mm)	PERCENTAGE PASSING
40	
25	
20	
16	
12.5	100
10	99
5	99
2.5	98
1.25	95
0.63	78
0.315	36
0.16	7
0.08	1

* The upper clay size of 2 μ m is as per the Canadian Foundation Manual.
 ** The soil description is visually based, subject to EBA description protocols.

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE



Reviewed By: *Lck*

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