

Geotechnical & Material Engineers

Registration No. F-4123

GENERAL REPORT

Project:	4130 Gairloch Lane	Client: Fred Emmite			
Project #:	: 18C11034 Report #:		105214	1 4 4	
Date:					1
Report of:	FIELD DENSITY TESTING		7	.	:

A&R technician was dispatched to the above referenced project on <u>02-08-18</u> for density testing. Densities were performed on structural fill material. A total of three (3) tests were performed. Results of these tests are provided on report number 105214A. Technician also obtained a sample of structural fill soil for laboratory testing to determine the optimum moisture/density relationship and Atterberg Limits (PI). Results of these tests are provided on report number 105214B.

 Left office:
 11:45 am

 Arrive site:
 12:00 pm

 Lunch:
 N/A

 Left site:
 4:30 pm

 Arrive office:
 5:15 pm

 Total hours:
 6.0 hrs

Remarks:

Charges:
Soils Technician: 6.0 hrs.
Standard Proctor: 1 each
Atterberg Limits: 1 each
Density Gauge: 1 each
Vehicle Charge: 1 each

Respectfully Submitted,

"This report represents only the materials tested and are not indicative of identical or similar materials. This report shall not be reproduced except in its entirety and with the expressed permission of this laboratory."



Geotechnical & Material Engineers

Registration No. F-4123

IN-PLACE FIELD DENSITY TEST REPORT

Client:

Fred Emmite

Date:

02-058-18

Project:

4130 Gairloch Ln.

Project #:

18C11034

Contractor:

105214A

Page 1 of 1

SPECIFICATIONS:

COMPACTION: 95% of ASTM D-698

√ ASTM D-1557

Report #:

MOISTURE: +/- 5%

SOIL DESCRIPTION

PROCTOR #

OPTIMUM WATER CONTENT, %

MAXIMUM DRY DENSITY, pcf

Reddish brown sandy clay

4041

120

...

D10000			70.12		12.0				116	
TEST NO	TEST LOCATION Pool Backfill	ELEV/ LIFT	Probe Depth (in.)	FIELD lbs	MOIST %	FIELD I	DENSITY DRY	PROCTOR NUMBER	PERCENT DENSITY	
1	Center of Area	1st lift	6"	22.4	20.3	132,5	110,1	4041	05.0	
2	Center of Area	2 nd lift	-		-	 	110,1	4041	95.0	
2		2''- 11π	6"	22.2	19.4	136.7	114.5	4041	98.7	
3	Center of Area	3 rd lift	6"	20.4	18.2	132.1	111.7	4041	96.3	

TEST PROCEDURES:

Density: ASTM D 6938 (Nuclear)

TEST EQUIPMENT:

MAKE: <u>Humboldt</u> MODEL: <u>5001-EZ</u> SER, #: <u>1813</u> MS: <u>482</u> DS: <u>2317</u>

TEST PERFORMED BY: Marc Ava

Remarks:

Respectfully Submitted.

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Geotechnical & Material Engineers • Registration No. F-4123

OPTIMUM MOISTURE/DENSITY RELATIONSHIP OF SOILS

Client:

Fred Emmite

Project:

4130 Gairloch

Test Method:

ASTM D-698 "A"

Sample Location:

on site stockpile

Optimum Water Content (%):

12

Liquid Limit (%):

2

Plastic Limit (%):

13

Date:

2/5/2018

Project No:

18C11034

Report No./Sample No.:

105214B/4041

Material Description: R

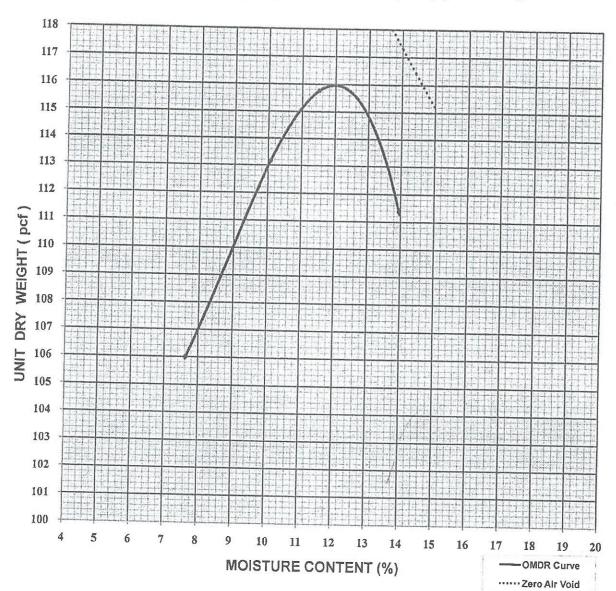
Reddish brown sandy clay

Max. Unit Dry Weight (pcf):

116

Plasticity Index (%):

17



Estimated Specific Gravity: 2.550

Respectfully Submitted

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Geotechnical & Material Engineers

Registration No. F-4123

GENERAL REPORT

Project:	4130 Gairloch Ln.	Client:	Fred Emmite		
Project #:	18C11034	Report #:	105246		
Date:	02-06-18	Technician:	Jim Bolding	2	
Report of:	FIELD DENSITY TESTING		3 2 2		

A&R technician was dispatched to the above referenced project on <u>02-06-18</u> for density testing. Densities were performed on pool backfill. A total of four (4) tests were performed. Results of these tests are provided on report number 105246A.

 Left office:
 10:45 am

 Arrive site:
 11:30 am

 Lunch:
 N/A

 Left site:
 12:00 pm

 Arrive office:
 12:45 pm

 Total hours:
 2.0 hrs.

Charges:

Soils Technician: 4.0 hrs. (Min)

Density Gauge: 1 each

Vehicle Charge: 1 each

Respectfully Submitted,

marci 1

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Geotechnical & Material Engineers

Registration No. F-4123

IN-PLACE FIELD DENSITY TEST REPORT

Client:

Fred Emmite

Date:

02-06-18

Project:

4130 Gairloch Ln.

Project #:

18C11034

Contractor:

COMPACTION: 95% of ASTM D-698 _√ ASTM D-1557

Report #:

105246A

Page 1 of 1

SPECIFICATIONS:

MOISTURE: as needed

SOIL DESCRIPTION

PROCTOR#

OPTIMUM WATER CONTENT, %

MAXIMUM DRY DENSITY, pcf

Reddish Brown Sandy Clay

4041

120

HILA

	1	10	1011		12.0				116.0	
TEST NO	TEST LOCATION Pool Backfill	ELEV/ LIFT	Probe Depth (in.)	FIELD MOIST lbs %		FIELD DENSITY WET DRY		PROCTOR NUMBER	PERCENT DENSITY	
1	East end	4th lift	8"	21.2	19.1	132.5	111.2	4041	95.9	
- 2	West end	5 th lift	8"	20.3	17.9	134.0	113.6	4041	97,9	
3	East end	6 th lift	8"	21.6	19.3	133,4	111.8	4041	96.4	
4	West end	7 th lift	8"	21.8	19.5	133.8	112.0	4041	96.5	

TEST PROCEDURES:

Density: ASTM D 6938 (Nuclear)

TEST EQUIPMENT:

MAKE: <u>Humboldt</u> MODEL: <u>5001-EZ</u> SER. #: <u>249</u> MS: <u>527</u> DS: <u>2032</u>

TEST PERFORMED BY: __Jim Bolding

Remarks:

Respectfully Submitted,

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