

MOISTURE - DENSITY RELATIONSHIP REPORT

TO [AMEC Environment & Infrastr.
5681 - 70 Street
Edmonton, AB
T6B 3P6

PROJECT NO. VM00605

CLIENT AMEC Environment & Infrastr.
C.C.

ATTN: Renata Wood

PROJECT Mount Nansen

CONTRACTOR

PROCTOR NO. 1

NO. OF TRIALS 4

DATE RECEIVED 2013.Dec.02 DATE SAMPLED 2013.Dec.02

INSITU MOISTURE N/A %

SAMPLED BY

TESTED BY

SUPPLIER

SOURCE TP-T-1-04, GS5, 3-3.1m

MATERIAL IDENTIFICATION

MAJOR COMPONENT CI - CLAY

SIZE

DESCRIPTION

Very Silty

ROCK TYPE

COMPACTION STANDARD

Standard Proctor,

ASTM D698

COMPACTION PROCEDURE

A: 101.6mm Mold,

Passing 4.75mm

Automatic

RAMMER TYPE

PREPARATION

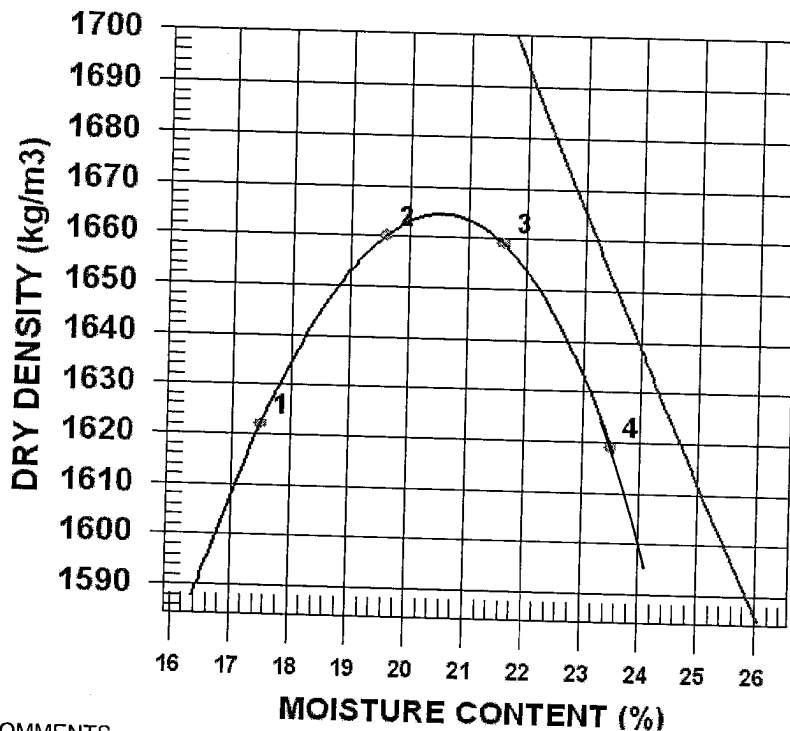
Moist

OVERSIZE CORRECTION METHOD None

RETAINED 4.75mm SCREEN

%

OVERSIZE SPECIFIC GRAVITY



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1906	1622	17.5
2	1985	1660	19.6
3	2017	1659	21.6
4	1999	1619	23.5

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.70	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED OVERSIZE CORRECTED	1660	20.5

COMMENTS

**MOISTURE - DENSITY
RELATIONSHIP REPORT**

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Edmonton, AB T6B 3P6



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TO
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Edmonton, AB
T6B 3P6

ATTN: Renata Wood

PROJECT Mount Nansen

CONTRACTOR

PROCTOR NO. 2

NO. OF TRIALS 4

DATE RECEIVED 2013.Dec.02 DATE SAMPLED 2013.Dec.02

INSITU MOISTURE N/A %

SAMPLED BY

TESTED BY

SUPPLIER

SOURCE TP-T-13-06, GS1, 0.8-0.

MATERIAL IDENTIFICATION

MAJOR COMPONENT Silty Sand

SIZE

DESCRIPTION

ROCK TYPE

COMPACTION STANDARD

Standard Proctor,
ASTM D698

COMPACTION PROCEDURE

A: 101.6mm Mold,
Passing 4.75mm
Automatic

RAMMER TYPE

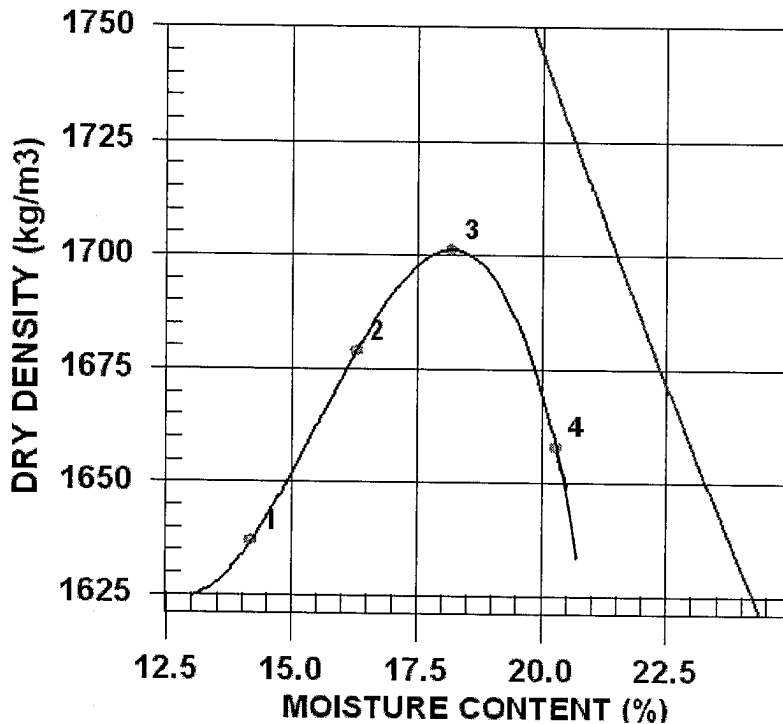
PREPARATION

Moist

OVERSIZE CORRECTION METHOD None

RETAINED 4.75mm SCREEN %

OVERSIZE SPECIFIC GRAVITY



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1869	1637	14.2
2	1953	1679	16.3
3	2010	1701	18.2
4	1994	1658	20.3

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.68	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED OVERSIZE CORRECTED	1700	18.0

COMMENTS