



KASETSART UNIVERSITY

DEPARTMENT OF CIVIL ENGINEERING, GEOTECHNICAL ENGINEERING LABORATORY FIELD DENSITY TEST (SAND CONE METHOD)

For บ.ทิปโก้ฟูดส์ (ประเทศไทย) จำกัด (มหาชน)
 Project _____
 Soil Description ดินถมที่แดงผสมหินคลุก (หลุม 3)
 Tested by อ.เฉลิมชัย - พรณรงค์

Location ถ.วัดสหกรณ์ อ.วังน้อย จ.อยุธยา
 Date 4/10/2004
 Compaction method No Compaction

Water Content

| Test No. | | 1 | 2 | 3 |
|------------------------------|---|--------|--------|---|
| Weight of Wet Soil+Container | g | 168.10 | 180.53 | |
| Weight of Dry Soil+Container | g | 162.21 | 175.02 | |
| Weight of Water | g | 5.89 | 5.51 | |
| Weight of Container | g | 26.28 | 26.82 | |
| Weight of Dry Soil | g | 135.93 | 148.20 | |
| Water Content, w | % | 4.33 | 3.72 | |

FIELD DENSITY DETERMINATION

| Test No. | | 1 | 2 | |
|--------------------------------|---|--------|---|--|
| Initial Weight of Jar + Sand | g | 6692 | | |
| Final Weight of Jar + Sand | g | 3742 | | |
| Total Weight of Sand Used | g | 2950 | | |
| Weight of Wet Soil + Container | g | 1664.5 | | |
| Weight of Container | g | | | |
| Weight of Wet Soil | g | 1664.5 | | |

DENSITY

| | | | | |
|------------------------|-------------------|--------|--|--|
| Weight of Sand in Cone | g | 1570 | | |
| Weight of Sand in Hole | g | 1380.0 | | |
| Density of Sand | g | 1.37 | | |
| Volume of Test Hole | cm ³ | 1008.5 | | |
| Wet Density | g/cm ³ | 1.65 | | |
| Dry Density | g/cm ³ | 1.59 | | |

SAND CALIBRATION

Weight of Sand in Cone and Field Density Plate A

| | | | | |
|------------------------------|---|------|------|------|
| Initial Weight of Jar + Sand | g | 7042 | 6877 | 6741 |
| Final Weight of Jar + Sand | g | 5472 | 5308 | 5170 |
| Weight of Sand in Cone | g | 1570 | 1569 | 1571 |
| Average | g | 1570 | | |

Sand Density

| | | | |
|------------------------|---|-------|-------|
| Weight of Mould + Sand | g | 11909 | 11913 |
| Weight of Mould | g | 7500 | 7500 |
| Weight of Sand | g | 4409 | 4413 |
| Average | g | 4411 | |

Mould

| | | | |
|-------------|-------------------|---------|---------|
| Diameter, d | cm. | 15.23 | 15.19 |
| Height, h | cm. | 17.75 | 17.75 |
| Volume, Vm | cm ³ . | 3231.97 | 3215.02 |
| Average | cm ³ . | 3223.50 | |

| | | |
|-----------------|---------------------|------|
| Density of Sand | g/cm ³ . | 1.37 |
|-----------------|---------------------|------|

Remarks: 1) Certification applies to test samples only.

2) Information under "For", "Project", are supplied by client. These are not certified.

3) This certificate is invalid without appropriate signature and seal.